

MEASUREMENT REPORT

FCC PART 15 Subpart E WLAN 802.11a/n/ac/ax

Report No.: S2023090421420102

Issue Date: 09-14-2024

Applicant: Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Address: Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
FCC ID: ZLZ-WXT5CM2803
Product: WiFi module
Model No.: WXT5CM2803
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Test Procedure(s): ANSI C63.10-2013, KDB 789033 D02v02r01, KDB 662911 D01v02r01
Item Receipt date: Sep 04, 2023
Test Date: Sep 11 ~ Oct 27, 2023

Compiled By

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Approved By

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

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The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S2023090421420102	Rev. 01	/	09-14-2024

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§2.1033 General Information

Applicant:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Applicant Address:	Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE's REPUBLIC OF CHINA
Manufacturer:	Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Manufacturer Address:	Mindray Building, Keji 12th Road South, High-Tech Industrial Park, Nanshan, 518057 Shenzhen, PEOPLE's REPUBLIC OF CHINA
Test Site:	Fangguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
Test Site Address:	G9 Building, China Sensor Network International Innovation Park No.200, Linghu Avenue Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart E (15.407)
FCC ID:	ZLZ-WXT5CM2803
Test Device Serial No.:	S/N.: / ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Unlicensed National Information Infrastructure (UNII)

1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	WiFi module
Model Name:	WXT5CM2803
Trade Mark:	mindray
Input Voltage Range:	DC 3.3V
Wi-Fi Specification:	802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80/ax-HE20/ax-HE40/ax-HE80

Note:

There are three types of antennas for the WiFi module. The antennas are RD542109NB87-1, RD542109NB87-2 and RD542109NB87-3.

2.2. Product Specification Subjective to this Report

Frequency Range:	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz, 5260~5320MHz, 5500~5700MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5270~5310MHz, 5510~5670MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610MHz, 5775MHz
Type of Modulation:	802.11a/n/ac/ax:OFDM/BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: MCS0~MCS7 802.11ac: MCS0~MCS9 802.11ax: MCS0~MCS11
Antenna Type:	FPC dipole
Antenna Gain:	RD542109NB87-1 Antenna : Ant1 3.29dBi, Ant2 3.29dBi RD542109NB87-2 Antenna : Ant1 3.17dBi, Ant2 3.17dBi RD542109NB87-3 Antenna : Ant1 2.77dBi, Ant2 2.77dBi

2.3. Operation Frequencies and Channel List

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
151	5755 MHz	159	5795 MHz	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	155	5775 MHz	--	--

2.4. Description of Available Antennas

1) For Antenna RD542109NB87-1

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC dipole	2.4&5	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	-0.68	-0.68	Nonsupport	2.33
	5150 ~ 5250	2	3.29	3.29	Nonsupport	6.30
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850					

2) For Antenna RD542109NB87-2

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC dipole	2.4&5	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	2.05	2.05	Nonsupport	5.06
	5150 ~ 5250	2	3.17	3.17	Nonsupport	6.18
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850					

3) For Antenna RD542109NB87-3

Antenna	Frequency Band (GHz)	Product Number	Tx Paths	Antenna
FPC dipole	2.4&5	WiFi module	2	Ant 1+Ant 2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	Directional Gain (dBi)
			Ant 0	Ant 1		
WIFI Ant 1+Ant 2	2412 ~2462	2	2.45	2.45	Nonsupport	5.46
	5150 ~ 5250	2	2.77	2.77	Nonsupport	5.78
	5250 ~ 5350					
	5450 ~ 5725					
	5725 ~ 5850					

Note:

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by $G_1, G_2, \dots, G_N$ dBi transmit signals are correlated, then

- Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(2.4G) = $10 \cdot \log[(10^{-0.68/20} + 10^{-0.68/20})^2 / 2] = 2.33$ dBi
- Directional Gain(2.4G) = $10 \cdot \log[(10^{2.05/20} + 10^{2.05/20})^2 / 2] = 5.06$ dBi
- Directional Gain(2.4G) = $10 \cdot \log[(10^{2.45/20} + 10^{2.45/20})^2 / 2] = 5.46$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{3.29/20} + 10^{3.29/20})^2 / 2] = 6.30$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{3.17/20} + 10^{3.17/20})^2 / 2] = 6.18$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{2.77/20} + 10^{2.77/20})^2 / 2] = 5.78$ dBi

2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS)&5GHz WLAN (UNII) &6GHz WLAN (UNII)

Note: 5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz, and detector = average per the guidance of Section B)2)b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep

points across T was greater than 100. The duty cycles are as follows:

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor
11A	Ant1	5180	27.00	27.00	1.0000	100.00	0.00
	Ant2	5180	27.00	27.00	1.0000	100.00	0.00
	Ant1	5200	27.00	27.00	1.0000	100.00	0.00
	Ant2	5200	27.00	27.00	1.0000	100.00	0.00
	Ant1	5240	27.00	27.00	1.0000	100.00	0.00
	Ant2	5240	27.00	27.00	1.0000	100.00	0.00
	Ant1	5260	27.00	27.00	1.0000	100.00	0.00
	Ant2	5260	27.00	27.00	1.0000	100.00	0.00
	Ant1	5280	27.00	27.00	1.0000	100.00	0.00
	Ant2	5280	27.00	27.00	1.0000	100.00	0.00
	Ant1	5320	27.00	27.00	1.0000	100.00	0.00
	Ant2	5320	27.00	27.00	1.0000	100.00	0.00
	Ant1	5500	27.00	27.00	1.0000	100.00	0.00
	Ant2	5500	27.00	27.00	1.0000	100.00	0.00
	Ant1	5580	27.00	27.00	1.0000	100.00	0.00
	Ant2	5580	27.00	27.00	1.0000	100.00	0.00
	Ant1	5700	27.00	27.00	1.0000	100.00	0.00
	Ant2	5700	27.00	27.00	1.0000	100.00	0.00
	Ant1	5745	27.00	27.00	1.0000	100.00	0.00
	Ant2	5745	27.00	27.00	1.0000	100.00	0.00
	Ant1	5785	27.00	27.00	1.0000	100.00	0.00
	Ant2	5785	27.00	27.00	1.0000	100.00	0.00
	Ant1	5825	27.00	27.00	1.0000	100.00	0.00
	Ant2	5825	27.00	27.00	1.0000	100.00	0.00
11N20MIMO	Ant1	5180	27.00	27.00	1.0000	100.00	0.00
	Ant2	5180	27.00	27.00	1.0000	100.00	0.00
	Ant1	5200	27.00	27.00	1.0000	100.00	0.00
	Ant2	5200	27.00	27.00	1.0000	100.00	0.00
	Ant1	5240	27.00	27.00	1.0000	100.00	0.00
	Ant2	5240	27.00	27.00	1.0000	100.00	0.00
	Ant1	5260	27.00	27.00	1.0000	100.00	0.00
	Ant2	5260	27.00	27.00	1.0000	100.00	0.00
	Ant1	5280	27.00	27.00	1.0000	100.00	0.00
	Ant2	5280	27.00	27.00	1.0000	100.00	0.00

	Ant1	5320	27.00	27.00	1.0000	100.00	0.00
	Ant2	5320	27.00	27.00	1.0000	100.00	0.00
	Ant1	5500	27.00	27.00	1.0000	100.00	0.00
	Ant2	5500	27.00	27.00	1.0000	100.00	0.00
	Ant1	5580	27.00	27.00	1.0000	100.00	0.00
	Ant2	5580	27.00	27.00	1.0000	100.00	0.00
	Ant1	5700	27.00	27.00	1.0000	100.00	0.00
	Ant2	5700	27.00	27.00	1.0000	100.00	0.00
	Ant1	5745	27.00	27.00	1.0000	100.00	0.00
	Ant2	5745	27.00	27.00	1.0000	100.00	0.00
	Ant1	5785	27.00	27.00	1.0000	100.00	0.00
	Ant2	5785	27.00	27.00	1.0000	100.00	0.00
	Ant1	5825	27.00	27.00	1.0000	100.00	0.00
	Ant2	5825	27.00	27.00	1.0000	100.00	0.00
11N40MIMO	Ant1	5190	27.00	27.00	1.0000	100.00	0.00
	Ant2	5190	27.00	27.00	1.0000	100.00	0.00
	Ant1	5230	27.00	27.00	1.0000	100.00	0.00
	Ant2	5230	27.00	27.00	1.0000	100.00	0.00
	Ant1	5270	27.00	27.00	1.0000	100.00	0.00
	Ant2	5270	27.00	27.00	1.0000	100.00	0.00
	Ant1	5310	27.00	27.00	1.0000	100.00	0.00
	Ant2	5310	27.00	27.00	1.0000	100.00	0.00
	Ant1	5510	27.00	27.00	1.0000	100.00	0.00
	Ant2	5510	27.00	27.00	1.0000	100.00	0.00
	Ant1	5550	27.00	27.00	1.0000	100.00	0.00
	Ant2	5550	27.00	27.00	1.0000	100.00	0.00
	Ant1	5670	27.00	27.00	1.0000	100.00	0.00
	Ant2	5670	27.00	27.00	1.0000	100.00	0.00
	Ant1	5755	27.00	27.00	1.0000	100.00	0.00
	Ant2	5755	27.00	27.00	1.0000	100.00	0.00
	Ant1	5795	27.00	27.00	1.0000	100.00	0.00
	Ant2	5795	27.00	27.00	1.0000	100.00	0.00
11AC20MIMO	Ant1	5180	27.00	27.00	1.0000	100.00	0.00
	Ant2	5180	27.00	27.00	1.0000	100.00	0.00
	Ant1	5200	27.00	27.00	1.0000	100.00	0.00
	Ant2	5200	27.00	27.00	1.0000	100.00	0.00
	Ant1	5240	27.00	27.00	1.0000	100.00	0.00

	Ant2	5240	27.00	27.00	1.0000	100.00	0.00
	Ant1	5260	27.00	27.00	1.0000	100.00	0.00
	Ant2	5260	27.00	27.00	1.0000	100.00	0.00
	Ant1	5280	27.00	27.00	1.0000	100.00	0.00
	Ant2	5280	27.00	27.00	1.0000	100.00	0.00
	Ant1	5320	27.00	27.00	1.0000	100.00	0.00
	Ant2	5320	27.00	27.00	1.0000	100.00	0.00
	Ant1	5500	27.00	27.00	1.0000	100.00	0.00
	Ant2	5500	27.00	27.00	1.0000	100.00	0.00
	Ant1	5580	27.00	27.00	1.0000	100.00	0.00
	Ant2	5580	27.00	27.00	1.0000	100.00	0.00
	Ant1	5700	27.00	27.00	1.0000	100.00	0.00
	Ant2	5700	27.00	27.00	1.0000	100.00	0.00
	Ant1	5745	27.00	27.00	1.0000	100.00	0.00
	Ant2	5745	27.00	27.00	1.0000	100.00	0.00
	Ant1	5785	27.00	27.00	1.0000	100.00	0.00
	Ant2	5785	27.00	27.00	1.0000	100.00	0.00
	Ant1	5825	27.00	27.00	1.0000	100.00	0.00
	Ant2	5825	27.00	27.00	1.0000	100.00	0.00
11AC40MIMO	Ant1	5190	27.00	27.00	1.0000	100.00	0.00
	Ant2	5190	27.00	27.00	1.0000	100.00	0.00
	Ant1	5230	27.00	27.00	1.0000	100.00	0.00
	Ant2	5230	27.00	27.00	1.0000	100.00	0.00
	Ant1	5270	27.00	27.00	1.0000	100.00	0.00
	Ant2	5270	27.00	27.00	1.0000	100.00	0.00
	Ant1	5310	27.00	27.00	1.0000	100.00	0.00
	Ant2	5310	27.00	27.00	1.0000	100.00	0.00
	Ant1	5510	27.00	27.00	1.0000	100.00	0.00
	Ant2	5510	27.00	27.00	1.0000	100.00	0.00
	Ant1	5550	27.00	27.00	1.0000	100.00	0.00
	Ant2	5550	27.00	27.00	1.0000	100.00	0.00
	Ant1	5670	27.00	27.00	1.0000	100.00	0.00
	Ant2	5670	27.00	27.00	1.0000	100.00	0.00
	Ant1	5755	27.00	27.00	1.0000	100.00	0.00
	Ant2	5755	27.00	27.00	1.0000	100.00	0.00
	Ant1	5795	27.00	27.00	1.0000	100.00	0.00
	Ant2	5795	27.00	27.00	1.0000	100.00	0.00

11AC80MIMO	Ant1	5210	27.00	27.00	1.0000	100.00	0.00
	Ant2	5210	27.00	27.00	1.0000	100.00	0.00
	Ant1	5290	27.00	27.00	1.0000	100.00	0.00
	Ant2	5290	27.00	27.00	1.0000	100.00	0.00
	Ant1	5530	27.00	27.00	1.0000	100.00	0.00
	Ant2	5530	27.00	27.00	1.0000	100.00	0.00
	Ant1	5610	27.00	27.00	1.0000	100.00	0.00
	Ant2	5610	27.00	27.00	1.0000	100.00	0.00
	Ant1	5775	27.00	27.00	1.0000	100.00	0.00
	Ant2	5775	27.00	27.00	1.0000	100.00	0.00
11AX20MIMO	Ant1	5180	27.00	27.00	1.0000	100.00	0.00
	Ant2	5180	27.00	27.00	1.0000	100.00	0.00
	Ant1	5200	27.00	27.00	1.0000	100.00	0.00
	Ant2	5200	27.00	27.00	1.0000	100.00	0.00
	Ant1	5240	27.00	27.00	1.0000	100.00	0.00
	Ant2	5240	27.00	27.00	1.0000	100.00	0.00
	Ant1	5260	27.00	27.00	1.0000	100.00	0.00
	Ant2	5260	27.00	27.00	1.0000	100.00	0.00
	Ant1	5280	27.00	27.00	1.0000	100.00	0.00
	Ant2	5280	27.00	27.00	1.0000	100.00	0.00
	Ant1	5320	27.00	27.00	1.0000	100.00	0.00
	Ant2	5320	27.00	27.00	1.0000	100.00	0.00
	Ant1	5500	27.00	27.00	1.0000	100.00	0.00
	Ant2	5500	27.00	27.00	1.0000	100.00	0.00
	Ant1	5580	27.00	27.00	1.0000	100.00	0.00
	Ant2	5580	0.13	0.17	0.7647	76.47	1.17
	Ant1	5700	27.00	27.00	1.0000	100.00	0.00
	Ant2	5700	27.00	27.00	1.0000	100.00	0.00
	Ant1	5745	27.00	27.00	1.0000	100.00	0.00
	Ant2	5745	27.00	27.00	1.0000	100.00	0.00
	Ant1	5785	27.00	27.00	1.0000	100.00	0.00
	Ant2	5785	27.00	27.00	1.0000	100.00	0.00
	Ant1	5825	27.00	27.00	1.0000	100.00	0.00
	Ant2	5825	27.00	27.00	1.0000	100.00	0.00
11AX40MIMO	Ant1	5190	27.00	27.00	1.0000	100.00	0.00
	Ant2	5190	27.00	27.00	1.0000	100.00	0.00
	Ant1	5230	27.00	27.00	1.0000	100.00	0.00

	Ant2	5230	27.00	27.00	1.0000	100.00	0.00
	Ant1	5270	27.00	27.00	1.0000	100.00	0.00
	Ant2	5270	27.00	27.00	1.0000	100.00	0.00
	Ant1	5310	27.00	27.00	1.0000	100.00	0.00
	Ant2	5310	27.00	27.00	1.0000	100.00	0.00
	Ant1	5510	27.00	27.00	1.0000	100.00	0.00
	Ant2	5510	27.00	27.00	1.0000	100.00	0.00
	Ant1	5550	27.00	27.00	1.0000	100.00	0.00
	Ant2	5550	27.00	27.00	1.0000	100.00	0.00
	Ant1	5670	27.00	27.00	1.0000	100.00	0.00
	Ant2	5670	27.00	27.00	1.0000	100.00	0.00
	Ant1	5755	27.00	27.00	1.0000	100.00	0.00
	Ant2	5755	27.00	27.00	1.0000	100.00	0.00
	Ant1	5795	27.00	27.00	1.0000	100.00	0.00
	Ant2	5795	27.00	27.00	1.0000	100.00	0.00
11AX80MIMO	Ant1	5210	27.00	27.00	1.0000	100.00	0.00
	Ant2	5210	27.00	27.00	1.0000	100.00	0.00
	Ant1	5290	27.00	27.00	1.0000	100.00	0.00
	Ant2	5290	27.00	27.00	1.0000	100.00	0.00
	Ant1	5530	27.00	27.00	1.0000	100.00	0.00
	Ant2	5530	27.00	27.00	1.0000	100.00	0.00
	Ant1	5610	27.00	27.00	1.0000	100.00	0.00
	Ant2	5610	27.00	27.00	1.0000	100.00	0.00
	Ant1	5775	27.00	27.00	1.0000	100.00	0.00
	Ant2	5775	27.00	27.00	1.0000	100.00	0.00

Test Graphs see Appendix A.

2.6. Test Software

The test utility software used during testing was “Putty.exe”, Power Parameter Value:

Test Mode 802.11a Antenna 1:

5150-5250MHz			5250-5350MHz			5470-5725MHz			5725-5850MHz		
Low	Middle	High	Low	Middle	High	Low	Middle	High	Low	Middle	High
17	17	17	17	17	15	14	16	16	17	17	17

Test Mode 802.11a Antenna 2:

5150-5250MHz			5250-5350MHz			5470-5725MHz			5725-5850MHz		
Low	Middle	High	Low	Middle	High	Low	Middle	High	Low	Middle	High
15	15	15	15	15	14	13	14	14	15	15	15

Test Mode	MIMO											
	5150-5250MHz			5250-5350MHz			5470-5725MHz			5725-5850MHz		
	Low	Middle	High	Low	Middle	High	Low	Middle	High	Low	Middle	High
802.11n-HT20	15	15	15	15	16	10	15	15	15	15	14	14
802.11n-HT40	11	--	13	13	--	13	13	14	14	14	14	14
802.11ac-VHT20	12	13	13	13	14	10	11	13	13	13	13	13
802.11ac-VHT40	13	--	13	12	--	10	11	13	13	13	13	13
802.11ac-VHT80	--	12	--	--	8	--	12	--	13	13	13	--
802.11ax-HE20	12	13	13	13	13	10	12	13	13	13	13	13
802.11ax-HE40	13	--	13	13		10	12	14	14	15	--	15
802.11ax-HE80	--	12	--	--	8	--	13	--	13	--	13	--

2.7. Test Mode

Test Mode	Mode 1: Transmit by 802.11a Ant 0
	Mode 2: Transmit by 802.11a Ant 1
	Mode 3: Transmit by 802.11n-HT20 MIMO
	Mode 4: Transmit by 802.11n-HT40 MIMO

	Mode 5: Transmit by 802.11ac-VHT20 MIMO
	Mode 6: Transmit by 802.11ac-VHT40 MIMO
	Mode 7: Transmit by 802.11ac-VHT80 MIMO
	Mode 8: Transmit by 802.11ax- HE20 MIMO
	Mode 9: Transmit by 802.11ax- HE40 MIMO
	Mode 10: Transmit by 802.11ax- HE80 MIMO

2.8. Test Configuration

The EUT was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside a 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.11.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- Use a unique coupling to the intentional radiator.

5. TEST EQUIPMENT CALIBRATION DATE

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EMI Test Receiver	R&S	ESR3	FWXGJC-2016-181	1 year	2024/03/14
Two-Line V-Network	R&S	ENV 216	FWXGJC-2016-182	1 year	2024/05/14
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2024/03/21

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	3 year	2024/08/13
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	3 year	2024/03/10
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2024/03/02
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	3 year	2024/06/04
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2023/11/08
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2023/11/17
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	3 year	2025/04/13
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-386	1 year	2023/11/21
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	1 year	2025/06/07

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2024/03/13
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2024/05/14
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2023/11/21

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	/	/	/

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.05dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 3.06dB 1GHz-12.75GHz: 4.13dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-26.5GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 6.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 6.3
15.407(a)(1)(iv), (2), (3)	Maximum Conducted Output Power	$\leq 24\text{ dBm U-NII-1 \& U-NII-2}$ $\leq 30\text{ dBm U-NII-3}$		Pass	Section 6.4
15.407(h)(1)	Transmit Power Control	$\leq 24\text{ dBm}$		Pass	Section 6.5
15.407(a)(1)(iv), (2), (3), (5)	Peak Power Spectral Density	$\leq 11\text{ dBm/MHz U-NII-1 \& U-NII-2}$ $\leq 30\text{ dBm/500kHz U-NII-3}$		Pass	Section 6.6
15.407(g)	Frequency Stability	N/A		Pass	Section 6.7
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	$\leq -27\text{dBm/MHz EIRP}$ Detail see section 7.9	Radiated	Pass	Section 6.8 & 6.9
15.205, 15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 6.10

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

7.2. 26dB Bandwidth Measurement and 99% Bandwidth

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

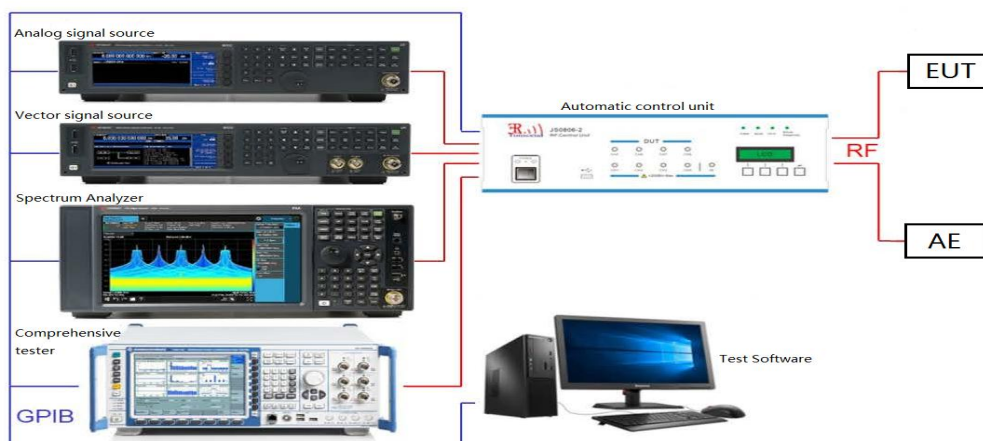
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013 D02v02r01 – Section C

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	OCB [MHz]
11A	Ant1	5180	24.640	5167.400	5192.040	18.149
	Ant2	5180	25.200	5167.400	5192.600	18.072
	Ant1	5200	23.480	5187.960	5211.440	18.319
	Ant2	5200	24.800	5187.520	5212.320	18.048
	Ant1	5240	19.920	5230.040	5249.960	16.987
	Ant2	5240	19.880	5229.880	5249.760	16.919
	Ant1	5260	23.040	5248.400	5271.440	18.096
	Ant2	5260	25.520	5247.960	5273.480	17.939
	Ant1	5280	25.440	5267.760	5293.200	18.201
	Ant2	5280	25.040	5267.240	5292.280	17.945
	Ant1	5320	25.000	5307.800	5332.800	18.225
	Ant2	5320	24.080	5307.560	5331.640	18.090
	Ant1	5500	27.920	5487.800	5515.720	18.250
	Ant2	5500	23.760	5488.320	5512.080	18.156
	Ant1	5580	25.320	5567.960	5593.280	18.074
	Ant2	5580	23.360	5568.200	5591.560	17.940
	Ant1	5700	24.920	5687.840	5712.760	18.109
	Ant2	5700	23.080	5688.800	5711.880	18.117
	Ant1	5745	24.560	5732.800	5757.360	17.959
	Ant2	5745	23.600	5733.360	5756.960	17.962
	Ant1	5785	24.040	5772.720	5796.760	18.144
	Ant2	5785	23.640	5772.920	5796.560	17.923
	Ant1	5825	25.680	5812.600	5838.280	18.044
	Ant2	5825	24.480	5812.760	5837.240	18.090
11N20MIMO	Ant1	5180	25.800	5167.120	5192.920	19.077
	Ant2	5180	24.400	5167.880	5192.280	18.412
	Ant1	5200	26.160	5186.640	5212.800	19.170
	Ant2	5200	24.960	5186.760	5211.720	18.359
	Ant1	5240	20.320	5229.720	5250.040	17.865
	Ant2	5240	20.080	5230.000	5250.080	17.706
	Ant1	5260	25.920	5247.480	5273.400	19.046
	Ant2	5260	24.160	5248.120	5272.280	18.484
	Ant1	5280	26.440	5266.520	5292.960	19.057
	Ant2	5280	26.320	5268.040	5294.360	18.634

	Ant1	5320	24.640	5307.560	5332.200	19.083
	Ant2	5320	26.160	5306.920	5333.080	18.431
	Ant1	5500	25.920	5486.680	5512.600	19.180
	Ant2	5500	25.720	5486.760	5512.480	18.464
	Ant1	5580	24.720	5567.360	5592.080	19.008
	Ant2	5580	27.480	5567.920	5595.400	18.783
	Ant1	5700	26.640	5685.960	5712.600	19.049
	Ant2	5700	28.840	5685.120	5713.960	18.618
	Ant1	5745	24.760	5732.960	5757.720	19.036
	Ant2	5745	23.400	5733.760	5757.160	18.462
	Ant1	5785	24.960	5772.360	5797.320	19.101
	Ant2	5785	27.680	5771.760	5799.440	18.629
	Ant1	5825	25.720	5812.000	5837.720	19.152
	Ant2	5825	24.360	5812.400	5836.760	18.688
11N40MIMO	Ant1	5190	39.520	5170.400	5209.920	36.190
	Ant2	5190	40.000	5169.680	5209.680	35.963
	Ant1	5230	40.000	5210.160	5250.160	36.143
	Ant2	5230	40.160	5209.680	5249.840	35.939
	Ant1	5270	39.760	5250.320	5290.080	36.149
	Ant2	5270	40.560	5250.160	5290.720	36.475
	Ant1	5310	20.160	5270.000	5290.160	18.449
	Ant2	5310	22.960	5270.000	5292.960	18.834
	Ant1	5510	39.600	5490.240	5529.840	44.279
	Ant2	5510	39.920	5489.920	5529.840	35.931
	Ant1	5550	39.840	5529.920	5569.760	36.216
	Ant2	5550	42.480	5529.680	5572.160	36.458
	Ant1	5670	39.680	5650.240	5689.920	36.029
	Ant2	5670	39.520	5649.840	5689.360	36.175
	Ant1	5755	39.920	5734.760	5774.680	35.907
	Ant2	5755	39.360	5735.160	5774.520	35.953
	Ant1	5795	39.920	5774.840	5814.760	36.133
	Ant2	5795	39.440	5775.000	5814.440	35.862
11AC20MIMO	Ant1	5180	25.040	5167.320	5192.360	19.097
	Ant2	5180	25.560	5166.400	5191.960	18.400
	Ant1	5200	26.120	5186.840	5212.960	19.243
	Ant2	5200	24.240	5187.760	5212.000	18.381
	Ant1	5240	20.320	5229.840	5250.160	17.928

	Ant2	5240	19.880	5229.960	5249.840	17.663
	Ant1	5260	26.040	5247.680	5273.720	19.049
	Ant2	5260	24.920	5247.760	5272.680	18.449
	Ant1	5280	25.880	5267.320	5293.200	19.153
	Ant2	5280	23.360	5268.880	5292.240	18.626
	Ant1	5320	25.240	5307.120	5332.360	19.181
	Ant2	5320	23.720	5307.360	5331.080	18.414
	Ant1	5500	25.120	5487.360	5512.480	19.055
	Ant2	5500	25.000	5486.920	5511.920	18.482
	Ant1	5580	24.720	5567.920	5592.640	19.071
	Ant2	5580	22.080	5569.200	5591.280	18.394
	Ant1	5700	26.520	5686.600	5713.120	19.054
	Ant2	5700	24.880	5687.680	5712.560	18.466
	Ant1	5745	24.440	5732.760	5757.200	19.019
	Ant2	5745	23.680	5733.520	5757.200	18.389
	Ant1	5785	26.360	5772.480	5798.840	19.128
	Ant2	5785	24.960	5772.160	5797.120	18.454
	Ant1	5825	24.800	5812.400	5837.200	19.101
	Ant2	5825	24.120	5812.600	5836.720	18.732
11AC40MIMO	Ant1	5190	39.840	5170.080	5209.920	36.140
	Ant2	5190	39.600	5170.000	5209.600	35.943
	Ant1	5230	39.600	5210.160	5249.760	36.122
	Ant2	5230	39.440	5210.080	5249.520	35.950
	Ant1	5270	40.800	5249.600	5290.400	36.116
	Ant2	5270	39.360	5250.320	5289.680	35.955
	Ant1	5310	39.440	5290.320	5329.760	36.092
	Ant2	5310	38.960	5290.640	5329.600	35.566
	Ant1	5510	40.000	5489.600	5529.600	36.116
	Ant2	5510	40.400	5489.520	5529.920	35.970
	Ant1	5550	40.160	5529.920	5570.080	36.124
	Ant2	5550	39.360	5530.240	5569.600	36.344
	Ant1	5670	39.600	5650.160	5689.760	36.081
	Ant2	5670	39.760	5649.920	5689.680	36.025
	Ant1	5755	39.600	5735.000	5774.600	36.029
	Ant2	5755	39.920	5735.240	5775.160	36.029
	Ant1	5795	39.680	5775.080	5814.760	36.123
	Ant2	5795	39.360	5775.160	5814.520	35.781

11AC80MIMO	Ant1	5210	79.520	5170.000	5249.520	76.123
	Ant2	5210	79.840	5170.000	5249.840	76.101
	Ant1	5290	79.840	5250.160	5330.000	76.100
	Ant2	5290	79.520	5250.320	5329.840	75.591
	Ant1	5530	79.680	5490.160	5569.840	76.090
	Ant2	5530	79.840	5489.840	5569.680	76.265
	Ant1	5610	79.520	5570.160	5649.680	76.072
	Ant2	5610	79.200	5570.320	5649.520	75.732
	Ant1	5775	79.840	5735.000	5814.840	75.957
	Ant2	5775	79.840	5735.000	5814.840	75.808
11AX20MIMO	Ant1	5180	21.520	5169.240	5190.760	19.174
	Ant2	5180	21.480	5169.120	5190.600	19.214
	Ant1	5200	21.600	5189.160	5210.760	19.173
	Ant2	5200	21.240	5189.400	5210.640	19.129
	Ant1	5240	19.960	5229.960	5249.920	18.870
	Ant2	5240	19.880	5229.960	5249.840	18.849
	Ant1	5260	21.960	5248.720	5270.680	19.111
	Ant2	5260	21.840	5248.880	5270.720	19.092
	Ant1	5280	21.120	5269.280	5290.400	19.140
	Ant2	5280	21.640	5269.200	5290.840	19.230
	Ant1	5320	22.320	5308.960	5331.280	19.167
	Ant2	5320	22.000	5308.800	5330.800	19.118
	Ant1	5500	21.880	5488.560	5510.440	19.174
	Ant2	5500	21.400	5489.240	5510.640	19.189
	Ant1	5580	21.920	5568.760	5590.680	19.114
	Ant2	5580	21.760	5569.680	5591.440	19.090
	Ant1	5700	21.280	5689.480	5710.760	19.136
	Ant2	5700	21.760	5689.160	5710.920	19.107
	Ant1	5745	21.920	5734.040	5755.960	19.124
	Ant2	5745	21.320	5734.120	5755.440	19.072
	Ant1	5785	21.800	5774.120	5795.920	19.160
	Ant2	5785	21.120	5774.200	5795.320	19.206
	Ant1	5825	21.800	5814.240	5836.040	19.138
	Ant2	5825	22.680	5813.080	5835.760	19.230
11AX40MIMO	Ant1	5190	39.360	5170.240	5209.600	37.563
	Ant2	5190	39.600	5170.160	5209.760	37.608
	Ant1	5230	39.280	5210.320	5249.600	37.610

	Ant2	5230	39.440	5210.160	5249.600	37.581
	Ant1	5270	39.520	5250.160	5289.680	37.597
	Ant2	5270	39.360	5250.240	5289.600	37.704
	Ant1	5310	39.440	5290.320	5329.760	37.409
	Ant2	5310	39.360	5290.320	5329.680	37.087
	Ant1	5510	39.600	5490.160	5529.760	37.487
	Ant2	5510	39.600	5490.080	5529.680	37.480
	Ant1	5550	39.280	5530.320	5569.600	37.485
	Ant2	5550	41.280	5528.480	5569.760	37.779
	Ant1	5670	39.440	5650.320	5689.760	37.630
	Ant2	5670	39.440	5650.240	5689.680	37.572
	Ant1	5755	39.360	5735.160	5774.520	37.393
	Ant2	5755	39.440	5735.240	5774.680	37.479
	Ant1	5795	39.360	5775.240	5814.600	37.445
	Ant2	5795	39.440	5775.160	5814.600	37.380
11AX80MIMO	Ant1	5210	80.480	5169.840	5250.320	76.875
	Ant2	5210	80.000	5170.000	5250.000	76.800
	Ant1	5290	80.000	5250.000	5330.000	77.049
	Ant2	5290	79.840	5250.160	5330.000	76.148
	Ant1	5530	80.000	5490.000	5570.000	76.777
	Ant2	5530	79.840	5490.000	5569.840	76.841
	Ant1	5610	80.000	5570.000	5650.000	76.852
	Ant2	5610	79.680	5570.160	5649.840	75.542
	Ant1	5775	80.000	5735.000	5815.000	76.734
	Ant2	5775	80.000	5735.000	5815.000	76.738

Test Graphs see Appendix A.

7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

7.3.2. Test Procedure used

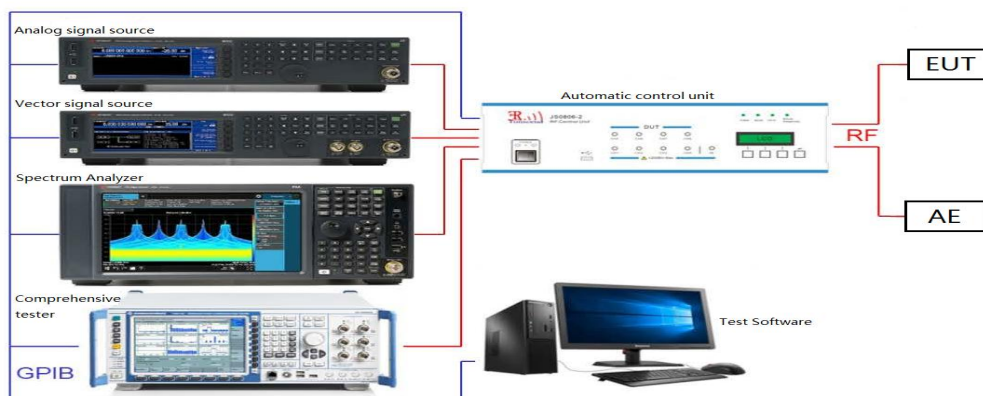
KDB 789033 D02v02r01 – Section C.2

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7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. Test Setup



7.3.5. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.400	5736.760	5753.160	0.5	PASS
	Ant2	5745	16.160	5736.760	5752.920	0.5	PASS
	Ant1	5785	16.400	5776.720	5793.120	0.5	PASS
	Ant2	5785	14.880	5777.800	5792.680	0.5	PASS
	Ant1	5825	16.440	5816.720	5833.160	0.5	PASS
	Ant2	5825	16.040	5817.000	5833.040	0.5	PASS
11N20MIMO	Ant1	5745	17.600	5736.160	5753.760	0.5	PASS
	Ant2	5745	17.520	5736.160	5753.680	0.5	PASS
	Ant1	5785	17.640	5776.080	5793.720	0.5	PASS
	Ant2	5785	17.600	5776.120	5793.720	0.5	PASS
	Ant1	5825	17.680	5816.080	5833.760	0.5	PASS
	Ant2	5825	17.560	5816.120	5833.680	0.5	PASS
11N40MIMO	Ant1	5755	35.040	5737.400	5772.440	0.5	PASS
	Ant2	5755	20.320	5747.080	5767.400	0.5	PASS
	Ant1	5795	32.480	5779.960	5812.440	0.5	PASS
	Ant2	5795	24.480	5782.360	5806.840	0.5	PASS
11AC20MIMO	Ant1	5745	17.720	5736.080	5753.800	0.5	PASS
	Ant2	5745	16.680	5737.000	5753.680	0.5	PASS
	Ant1	5785	17.640	5776.120	5793.760	0.5	PASS
	Ant2	5785	17.280	5776.360	5793.640	0.5	PASS
	Ant1	5825	17.600	5816.120	5833.720	0.5	PASS
	Ant2	5825	17.560	5816.120	5833.680	0.5	PASS
11AC40MIMO	Ant1	5755	34.480	5738.200	5772.680	0.5	PASS
	Ant2	5755	16.880	5747.400	5764.280	0.5	PASS
	Ant1	5795	32.640	5779.560	5812.200	0.5	PASS
	Ant2	5795	15.040	5788.040	5803.080	0.5	PASS
11AC80MIMO	Ant1	5775	76.480	5736.600	5813.080	0.5	PASS
	Ant2	5775	51.040	5755.320	5806.360	0.5	PASS
11AX20MIMO	Ant1	5745	18.960	5735.400	5754.360	0.5	PASS
	Ant2	5745	18.160	5735.480	5753.640	0.5	PASS
	Ant1	5785	18.960	5775.440	5794.400	0.5	PASS
	Ant2	5785	18.840	5775.520	5794.360	0.5	PASS
	Ant1	5825	19.040	5815.440	5834.480	0.5	PASS
	Ant2	5825	18.720	5815.600	5834.320	0.5	PASS

11AX40MIMO	Ant1	5755	35.520	5736.760	5772.280	0.5	PASS
	Ant2	5755	11.760	5749.320	5761.080	0.5	PASS
	Ant1	5795	35.200	5777.560	5812.760	0.5	PASS
	Ant2	5795	16.240	5787.640	5803.880	0.5	PASS
11AX80MIMO	Ant1	5775	75.680	5737.720	5813.400	0.5	PASS
	Ant2	5775	10.080	5774.840	5784.920	0.5	PASS

Test Graphs see Appendix A.

7.4. Output Power Measurement

7.4.1. Test Limit

For FCC Power Measurement Limit

For client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi..

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (23.98dBm) or $11\text{dBm} + 10 \log(26\text{dB BW})$.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC Power Measurement Limit

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98dBm) or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W (30dBm) or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.4.2. Test Procedure Used

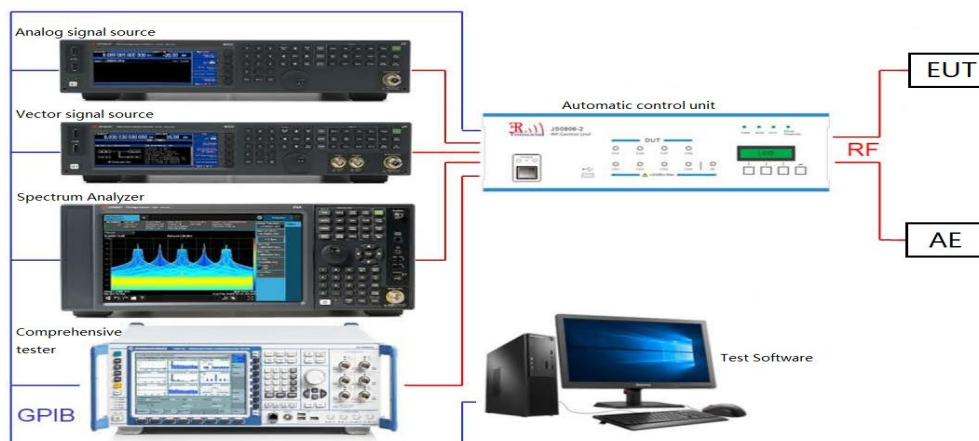
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.4.4. Test Setup



7.4.5. Test Rate Assessment

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (yellow marker) for final test of each channel.

N _{Tx}	802.11a	MCS Index for 802.11n	Data Rate (Mbps)			
			20MHz Bandwidth		40MHz Bandwidth	
			800ns GI	400ns GI	800ns GI	400ns GI
2	6	8	13.0	14.4	27.0	30.0
2	9	9	26.0	28.9	54.0	60.0
2	12	10	39.0	43.3	81.0	90.0
2	18	11	52.0	57.8	108.0	120.0
2	24	12	78.0	86.7	162.0	180.0
2	36	13	104.0	115.6	216.0	240.0
2	48	14	117.0	130.0	243.0	270.0
2	54	15	130.0	144.4	270.0	300.0

N _{Tx}	MCS Index for 802.11ac	Data Rate (Mbps)					
		20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
		800ns GI	400ns GI	800ns GI	400ns GI	800ns GI	400ns GI
2	0	13.0	14.4	27.0	30.0	58.6	65.0
2	1	26.0	28.8	54.0	60.0	117.0	130.0
2	2	39.0	43.4	81.0	90.0	175.6	195.0
2	3	52.0	57.8	108.0	120.0	234.0	260.0
2	4	78.0	86.6	162.0	180.0	351.0	390.0
2	5	104.0	115.6	216.0	240.0	468.0	520.0
2	6	117.0	130.0	243.0	270.0	526.6	585.0
2	7	130.0	144.4	270.0	300.0	585.0	650.0
2	8	156.0	173.4	324.0	360.0	702.0	780.0
2	9	--	--	360.0	400.0	780.0	866.6

Note: Power output test was verified over all data rates of each mode shown as above, and then choose the maximum power output (yellow marker) for final test of each channel.

7.4.6. Test Result

Test Mode	Antenna	Channel	Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.16	≤23.98	PASS
	Ant2	5180	14.51	≤23.98	PASS
	Ant1	5200	13.36	≤23.98	PASS
	Ant2	5200	13.73	≤23.98	PASS
	Ant1	5240	13.60	≤23.98	PASS
	Ant2	5240	14.28	≤23.98	PASS
	Ant1	5260	13.63	≤23.98	PASS
	Ant2	5260	14.68	≤23.98	PASS
	Ant1	5280	13.82	≤23.98	PASS
	Ant2	5280	14.65	≤23.98	PASS
	Ant1	5320	13.83	≤23.98	PASS
	Ant2	5320	14.07	≤23.98	PASS
	Ant1	5500	14.10	≤23.98	PASS
	Ant2	5500	13.60	≤23.98	PASS
	Ant1	5580	13.45	≤23.98	PASS
	Ant2	5580	14.06	≤23.98	PASS
	Ant1	5700	12.81	≤23.98	PASS
	Ant2	5700	13.89	≤23.98	PASS
	Ant1	5745	13.73	≤30.00	PASS
	Ant2	5745	14.34	≤30.00	PASS
	Ant1	5785	13.69	≤30.00	PASS
	Ant2	5785	14.87	≤30.00	PASS
	Ant1	5825	14.09	≤30.00	PASS
	Ant2	5825	15.16	≤30.00	PASS
11N20MIMO	Ant1	5180	10.21	≤23.98	PASS
	Ant2	5180	14.49	≤23.98	PASS
	Total	5180	15.87	≤23.98	PASS
	Ant1	5200	10.73	≤23.98	PASS
	Ant2	5200	14.63	≤23.98	PASS
	Total	5200	16.11	≤23.98	PASS
	Ant1	5240	10.88	≤23.98	PASS
	Ant2	5240	13.33	≤23.98	PASS
	Total	5240	15.29	≤23.98	PASS

	Ant1	5260	10.54	≤ 23.98	PASS
	Ant2	5260	12.91	≤ 23.98	PASS
	Total	5260	14.90	≤ 23.98	PASS
	Ant1	5280	11.27	≤ 23.98	PASS
	Ant2	5280	14.50	≤ 23.98	PASS
	Total	5280	16.19	≤ 23.98	PASS
	Ant1	5320	12.71	≤ 23.98	PASS
	Ant2	5320	13.58	≤ 23.98	PASS
	Total	5320	16.18	≤ 23.98	PASS
	Ant1	5500	14.20	≤ 23.98	PASS
	Ant2	5500	15.66	≤ 23.98	PASS
	Total	5500	18.00	≤ 23.98	PASS
	Ant1	5580	11.06	≤ 23.98	PASS
	Ant2	5580	17.76	≤ 23.98	PASS
	Total	5580	18.60	≤ 23.98	PASS
	Ant1	5700	10.75	≤ 23.98	PASS
	Ant2	5700	14.19	≤ 23.98	PASS
	Total	5700	15.81	≤ 23.98	PASS
	Ant1	5745	10.83	≤ 30.00	PASS
	Ant2	5745	14.55	≤ 30.00	PASS
	Total	5745	16.09	≤ 30.00	PASS
	Ant1	5785	10.06	≤ 30.00	PASS
	Ant2	5785	15.25	≤ 30.00	PASS
	Total	5785	16.40	≤ 30.00	PASS
	Ant1	5825	10.59	≤ 30.00	PASS
	Ant2	5825	12.07	≤ 30.00	PASS
	Total	5825	14.40	≤ 30.00	PASS
11N40MIMO	Ant1	5190	12.38	≤ 23.98	PASS
	Ant2	5190	14.53	≤ 23.98	PASS
	Total	5190	16.60	≤ 23.98	PASS
	Ant1	5230	11.58	≤ 23.98	PASS
	Ant2	5230	12.97	≤ 23.98	PASS
	Total	5230	15.34	≤ 23.98	PASS
	Ant1	5270	11.54	≤ 23.98	PASS
	Ant2	5270	12.66	≤ 23.98	PASS
	Total	5270	15.15	≤ 23.98	PASS
	Ant1	5310	10.69	≤ 23.98	PASS

	Ant2	5310	10.70	≤ 23.98	PASS
	Total	5310	13.71	≤ 23.98	PASS
	Ant1	5510	11.11	≤ 23.98	PASS
	Ant2	5510	13.31	≤ 23.98	PASS
	Total	5510	15.36	≤ 23.98	PASS
	Ant1	5550	12.42	≤ 23.98	PASS
	Ant2	5550	11.98	≤ 23.98	PASS
	Total	5550	15.22	≤ 23.98	PASS
	Ant1	5670	12.05	≤ 23.98	PASS
	Ant2	5670	14.40	≤ 23.98	PASS
	Total	5670	16.39	≤ 23.98	PASS
	Ant1	5755	12.02	≤ 30.00	PASS
	Ant2	5755	14.98	≤ 30.00	PASS
	Total	5755	16.76	≤ 30.00	PASS
	Ant1	5795	11.42	≤ 30.00	PASS
	Ant2	5795	16.19	≤ 30.00	PASS
	Total	5795	17.44	≤ 30.00	PASS
11AC20MIMO	Ant1	5180	9.92	≤ 23.98	PASS
	Ant2	5180	12.27	≤ 23.98	PASS
	Total	5180	14.26	≤ 23.98	PASS
	Ant1	5200	10.57	≤ 23.98	PASS
	Ant2	5200	12.58	≤ 23.98	PASS
	Total	5200	14.70	≤ 23.98	PASS
	Ant1	5240	10.60	≤ 23.98	PASS
	Ant2	5240	12.00	≤ 23.98	PASS
	Total	5240	14.37	≤ 23.98	PASS
	Ant1	5260	10.85	≤ 23.98	PASS
	Ant2	5260	11.33	≤ 23.98	PASS
	Total	5260	14.11	≤ 23.98	PASS
	Ant1	5280	11.22	≤ 23.98	PASS
	Ant2	5280	13.07	≤ 23.98	PASS
	Total	5280	15.25	≤ 23.98	PASS
	Ant1	5320	12.39	≤ 23.98	PASS
	Ant2	5320	15.85	≤ 23.98	PASS
	Total	5320	14.57	≤ 23.98	PASS
	Ant1	5500	12.01	≤ 23.98	PASS
	Ant2	5500	12.59	≤ 23.98	PASS

	Total	5500	15.32	≤ 23.98	PASS
	Ant1	5580	12.49	≤ 23.98	PASS
	Ant2	5580	15.58	≤ 23.98	PASS
	Total	5580	17.31	≤ 23.98	PASS
	Ant1	5700	10.89	≤ 23.98	PASS
	Ant2	5700	12.28	≤ 23.98	PASS
	Total	5700	14.65	≤ 23.98	PASS
	Ant1	5745	10.90	≤ 30.00	PASS
	Ant2	5745	13.45	≤ 30.00	PASS
	Total	5745	15.37	≤ 30.00	PASS
	Ant1	5785	10.41	≤ 30.00	PASS
	Ant2	5785	14.93	≤ 30.00	PASS
	Total	5785	16.24	≤ 30.00	PASS
	Ant1	5825	11.23	≤ 30.00	PASS
	Ant2	5825	11.79	≤ 30.00	PASS
	Total	5825	14.53	≤ 30.00	PASS
11AC40MIMO	Ant1	5190	10.81	≤ 23.98	PASS
	Ant2	5190	12.79	≤ 23.98	PASS
	Total	5190	14.92	≤ 23.98	PASS
	Ant1	5230	11.24	≤ 23.98	PASS
	Ant2	5230	14.40	≤ 23.98	PASS
	Total	5230	16.11	≤ 23.98	PASS
	Ant1	5270	10.73	≤ 23.98	PASS
	Ant2	5270	11.75	≤ 23.98	PASS
	Total	5270	14.28	≤ 23.98	PASS
	Ant1	5310	8.48	≤ 23.98	PASS
	Ant2	5310	10.32	≤ 23.98	PASS
	Total	5310	12.51	≤ 23.98	PASS
	Ant1	5510	10.38	≤ 23.98	PASS
	Ant2	5510	12.39	≤ 23.98	PASS
	Total	5510	14.51	≤ 23.98	PASS
	Ant1	5550	12.26	≤ 23.98	PASS
	Ant2	5550	10.56	≤ 23.98	PASS
	Total	5550	14.50	≤ 23.98	PASS
	Ant1	5670	11.17	≤ 23.98	PASS
	Ant2	5670	12.42	≤ 23.98	PASS
	Total	5670	14.85	≤ 23.98	PASS

	Ant1	5755	11.58	≤ 30.00	PASS
	Ant2	5755	12.27	≤ 30.00	PASS
	Total	5755	14.95	≤ 30.00	PASS
	Ant1	5795	11.40	≤ 30.00	PASS
	Ant2	5795	13.69	≤ 30.00	PASS
	Total	5795	15.70	≤ 30.00	PASS
11AC80MIMO	Ant1	5210	8.82	≤ 23.98	PASS
	Ant2	5210	10.93	≤ 23.98	PASS
	Total	5210	13.01	≤ 23.98	PASS
	Ant1	5290	7.69	≤ 23.98	PASS
	Ant2	5290	8.74	≤ 23.98	PASS
	Total	5290	11.26	≤ 23.98	PASS
	Ant1	5530	9.99	≤ 23.98	PASS
	Ant2	5530	10.67	≤ 23.98	PASS
	Total	5530	13.35	≤ 23.98	PASS
	Ant1	5610	11.95	≤ 23.98	PASS
	Ant2	5610	13.86	≤ 23.98	PASS
	Total	5610	16.02	≤ 23.98	PASS
	Ant1	5775	10.14	≤ 30.00	PASS
	Ant2	5775	13.32	≤ 30.00	PASS
	Total	5775	15.03	≤ 30.00	PASS
11AX20MIMO	Ant1	5180	8.70	≤ 23.98	PASS
	Ant2	5180	10.87	≤ 23.98	PASS
	Total	5180	12.93	≤ 23.98	PASS
	Ant1	5200	9.07	≤ 23.98	PASS
	Ant2	5200	10.95	≤ 23.98	PASS
	Total	5200	13.12	≤ 23.98	PASS
	Ant1	5240	10.17	≤ 23.98	PASS
	Ant2	5240	11.16	≤ 23.98	PASS
	Total	5240	13.70	≤ 23.98	PASS
	Ant1	5260	10.68	≤ 23.98	PASS
	Ant2	5260	10.70	≤ 23.98	PASS
	Total	5260	13.70	≤ 23.98	PASS
	Ant1	5280	10.33	≤ 23.98	PASS
	Ant2	5280	10.81	≤ 23.98	PASS
	Total	5280	13.59	≤ 23.98	PASS
	Ant1	5320	9.74	≤ 23.98	PASS

	Ant2	5320	12.30	≤ 23.98	PASS
	Total	5320	14.22	≤ 23.98	PASS
	Ant1	5500	11.06	≤ 23.98	PASS
	Ant2	5500	11.98	≤ 23.98	PASS
	Total	5500	14.55	≤ 23.98	PASS
	Ant1	5580	11.19	≤ 23.98	PASS
	Ant2	5580	14.29	≤ 23.98	PASS
	Total	5580	16.02	≤ 23.98	PASS
	Ant1	5700	9.82	≤ 23.98	PASS
	Ant2	5700	10.99	≤ 23.98	PASS
	Total	5700	13.45	≤ 23.98	PASS
	Ant1	5745	10.02	≤ 30.00	PASS
	Ant2	5745	12.24	≤ 30.00	PASS
	Total	5745	14.28	≤ 30.00	PASS
	Ant1	5785	11.45	≤ 30.00	PASS
	Ant2	5785	13.60	≤ 30.00	PASS
	Total	5785	15.67	≤ 30.00	PASS
	Ant1	5825	10.30	≤ 30.00	PASS
	Ant2	5825	10.26	≤ 30.00	PASS
	Total	5825	13.29	≤ 30.00	PASS
11AX40MIMO	Ant1	5190	7.97	≤ 23.98	PASS
	Ant2	5190	10.76	≤ 23.98	PASS
	Total	5190	12.60	≤ 23.98	PASS
	Ant1	5230	8.54	≤ 23.98	PASS
	Ant2	5230	10.60	≤ 23.98	PASS
	Total	5230	12.70	≤ 23.98	PASS
	Ant1	5270	8.90	≤ 23.98	PASS
	Ant2	5270	9.95	≤ 23.98	PASS
	Total	5270	12.47	≤ 23.98	PASS
	Ant1	5310	9.65	≤ 23.98	PASS
	Ant2	5310	11.86	≤ 23.98	PASS
	Total	5310	13.90	≤ 23.98	PASS
	Ant1	5510	9.04	≤ 23.98	PASS
	Ant2	5510	10.23	≤ 23.98	PASS
	Total	5510	12.69	≤ 23.98	PASS
	Ant1	5550	10.85	≤ 23.98	PASS
	Ant2	5550	10.51	≤ 23.98	PASS

	Total	5550	13.69	≤ 23.98	PASS
	Ant1	5670	9.54	≤ 23.98	PASS
	Ant2	5670	12.09	≤ 23.98	PASS
	Total	5670	14.01	≤ 23.98	PASS
	Ant1	5755	10.75	≤ 30.00	PASS
	Ant2	5755	13.97	≤ 30.00	PASS
	Total	5755	15.66	≤ 30.00	PASS
	Ant1	5795	10.65	≤ 30.00	PASS
	Ant2	5795	15.37	≤ 30.00	PASS
	Total	5795	16.63	≤ 30.00	PASS
11AX80MIMO	Ant1	5210	9.01	≤ 23.98	PASS
	Ant2	5210	10.57	≤ 23.98	PASS
	Total	5210	12.87	≤ 23.98	PASS
	Ant1	5290	6.16	≤ 23.98	PASS
	Ant2	5290	8.51	≤ 23.98	PASS
	Total	5290	10.50	≤ 23.98	PASS
	Ant1	5530	10.81	≤ 23.98	PASS
	Ant2	5530	11.25	≤ 23.98	PASS
	Total	5530	14.05	≤ 23.98	PASS
	Ant1	5610	11.86	≤ 23.98	PASS
	Ant2	5610	12.50	≤ 23.98	PASS
	Total	5610	15.20	≤ 23.98	PASS
	Ant1	5775	10.18	≤ 30.00	PASS
	Ant2	5775	11.76	≤ 30.00	PASS
	Total	5775	14.05	≤ 30.00	PASS

Test Graphs see Appendix A.

The Duty Cycle Factor is compensated in the Offset of graph..

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

7.5.2. Test Procedure Used

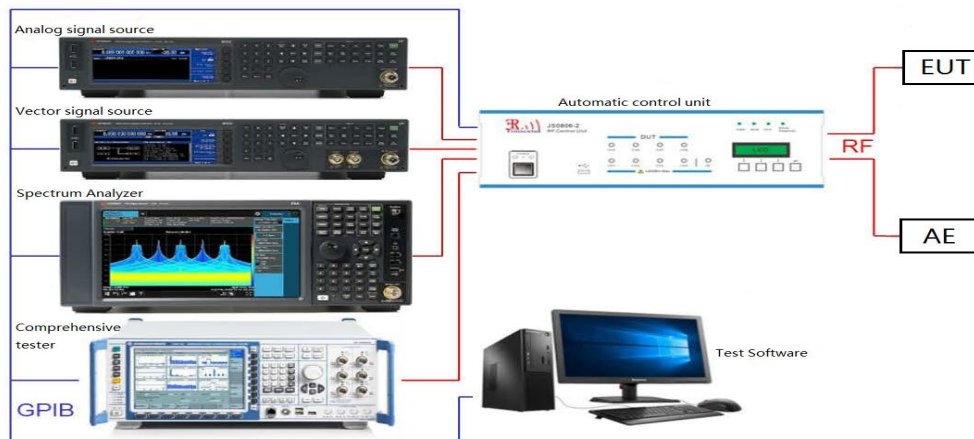
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For client devices in the 5.15–5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.6.2. Test Procedure Used

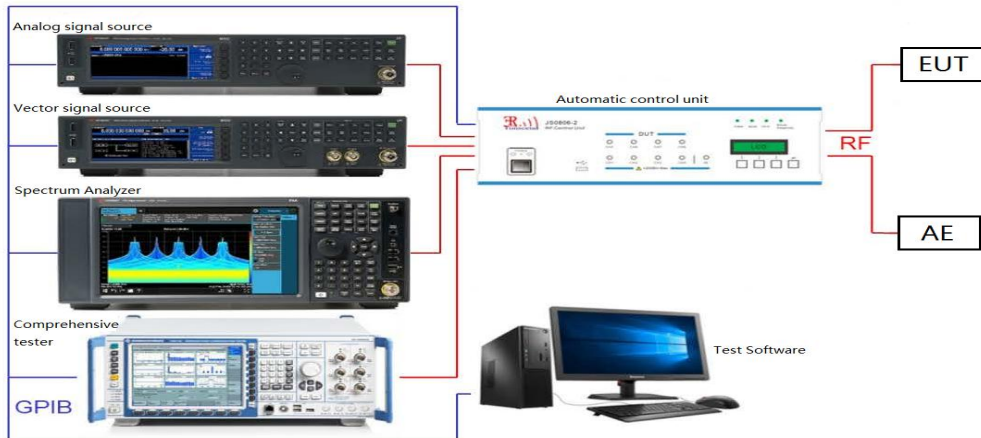
KDB 789033 D02v02r01 - Section F

ANSI C63.10-2013 - Section 12.3.2.2

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.6.4. Test Setup



7.6.5. Test Result

Test Mode	Antenna	Channel	Power Spectral Density [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.35	≤11.00	PASS
	Ant2	5180	5.31	≤11.00	PASS
	Ant1	5200	4.87	≤11.00	PASS
	Ant2	5200	4.05	≤11.00	PASS
	Ant1	5240	3.79	≤11.00	PASS
	Ant2	5240	4.87	≤11.00	PASS
	Ant1	5260	3.8	≤11.00	PASS
	Ant2	5260	5.37	≤11.00	PASS
	Ant1	5280	4.31	≤11.00	PASS
	Ant2	5280	5.12	≤11.00	PASS
	Ant1	5320	4.3	≤11.00	PASS
	Ant2	5320	5.05	≤11.00	PASS
	Ant1	5500	4.51	≤11.00	PASS
	Ant2	5500	4.89	≤11.00	PASS
	Ant1	5580	3.72	≤11.00	PASS
	Ant2	5580	5.06	≤11.00	PASS
	Ant1	5700	3.27	≤11.00	PASS
	Ant2	5700	4.87	≤11.00	PASS
	Ant1	5745	0.73	≤30.00	PASS
	Ant2	5745	3.58	≤30.00	PASS
	Ant1	5785	1.26	≤30.00	PASS
	Ant2	5785	4.06	≤30.00	PASS
	Ant1	5825	1.93	≤30.00	PASS
	Ant2	5825	4.64	≤30.00	PASS
11N20MIMO	Ant1	5180	1.07	≤11.00	PASS
	Ant2	5180	4.72	≤11.00	PASS
	Total	5180	6.28	≤11.00	PASS
	Ant1	5200	1.00	≤11.00	PASS
	Ant2	5200	5.03	≤11.00	PASS
	Total	5200	6.48	≤11.00	PASS
	Ant1	5240	1.42	≤11.00	PASS
	Ant2	5240	4.05	≤11.00	PASS

	Total	5240	5.94	≤11.00	PASS
	Ant1	5260	1.02	≤11.00	PASS
	Ant2	5260	4.23	≤11.00	PASS
	Total	5260	5.93	≤11.00	PASS
	Ant1	5280	1.22	≤11.00	PASS
	Ant2	5280	6.18	≤11.00	PASS
	Total	5280	7.38	≤11.00	PASS
	Ant1	5320	-2.45	≤11.00	PASS
	Ant2	5320	4.29	≤11.00	PASS
	Total	5320	5.12	≤11.00	PASS
	Ant1	5500	4.42	≤11.00	PASS
	Ant2	5500	6.3	≤11.00	PASS
	Total	5500	8.47	≤11.00	PASS
	Ant1	5580	1.31	≤11.00	PASS
	Ant2	5580	8.75	≤11.00	PASS
	Total	5580	9.47	≤11.00	PASS
	Ant1	5700	0.53	≤11.00	PASS
	Ant2	5700	4.86	≤11.00	PASS
	Total	5700	6.22	≤11.00	PASS
	Ant1	5745	-1.4	≤30.00	PASS
	Ant2	5745	3.87	≤30.00	PASS
	Total	5745	5.00	≤30.00	PASS
	Ant1	5785	-2.92	≤30.00	PASS
	Ant2	5785	4.15	≤30.00	PASS
	Total	5785	4.93	≤30.00	PASS
	Ant1	5825	-2.16	≤30.00	PASS
	Ant2	5825	1.49	≤30.00	PASS
	Total	5825	3.05	≤30.00	PASS
11N40MIMO	Ant1	5190	0.26	≤11.00	PASS
	Ant2	5190	2.55	≤11.00	PASS
	Total	5190	4.56	≤11.00	PASS
	Ant1	5230	0.23	≤11.00	PASS
	Ant2	5230	0.85	≤11.00	PASS
	Total	5230	3.56	≤11.00	PASS
	Ant1	5270	-1.02	≤11.00	PASS
	Ant2	5270	0.66	≤11.00	PASS
	Total	5270	2.91	≤11.00	PASS

	Ant1	5310	-1.2	≤11.00	PASS
	Ant2	5310	-0.08	≤11.00	PASS
	Total	5310	2.41	≤11.00	PASS
	Ant1	5510	-0.69	≤11.00	PASS
	Ant2	5510	1.01	≤11.00	PASS
	Total	5510	3.25	≤11.00	PASS
	Ant1	5550	0.46	≤11.00	PASS
	Ant2	5550	0.15	≤11.00	PASS
	Total	5550	3.32	≤11.00	PASS
	Ant1	5670	0.17	≤11.00	PASS
	Ant2	5670	2.44	≤11.00	PASS
	Total	5670	4.46	≤11.00	PASS
	Ant1	5755	-2.27	≤30.00	PASS
	Ant2	5755	3.7	≤30.00	PASS
	Total	5755	4.68	≤30.00	PASS
	Ant1	5795	-3.34	≤30.00	PASS
	Ant2	5795	2.95	≤30.00	PASS
	Total	5795	3.87	≤30.00	PASS
11AC20MIMO	Ant1	5180	0	≤11.00	PASS
	Ant2	5180	3.14	≤11.00	PASS
	Total	5180	4.86	≤11.00	PASS
	Ant1	5200	0.98	≤11.00	PASS
	Ant2	5200	3.57	≤11.00	PASS
	Total	5200	5.48	≤11.00	PASS
	Ant1	5240	0.81	≤11.00	PASS
	Ant2	5240	2.86	≤11.00	PASS
	Total	5240	4.97	≤11.00	PASS
	Ant1	5260	0.78	≤11.00	PASS
	Ant2	5260	1.55	≤11.00	PASS
	Total	5260	4.19	≤11.00	PASS
	Ant1	5280	1.09	≤11.00	PASS
	Ant2	5280	4.69	≤11.00	PASS
	Total	5280	6.26	≤11.00	PASS
	Ant1	5320	2.57	≤11.00	PASS
	Ant2	5320	3.57	≤11.00	PASS
	Total	5320	6.11	≤11.00	PASS
	Ant1	5500	2	≤11.00	PASS

	Ant2	5500	3.42	≤ 11.00	PASS
	Total	5500	5.78	≤ 11.00	PASS
	Ant1	5580	3.37	≤ 11.00	PASS
	Ant2	5580	6.8	≤ 11.00	PASS
	Total	5580	8.43	≤ 11.00	PASS
	Ant1	5700	0.67	≤ 11.00	PASS
	Ant2	5700	2.98	≤ 11.00	PASS
	Total	5700	4.99	≤ 11.00	PASS
	Ant1	5745	-2.07	≤ 30.00	PASS
	Ant2	5745	2.56	≤ 30.00	PASS
	Total	5745	3.85	≤ 30.00	PASS
	Ant1	5785	-2.11	≤ 30.00	PASS
	Ant2	5785	4.3	≤ 30.00	PASS
	Total	5785	5.19	≤ 30.00	PASS
	Ant1	5825	-1.18	≤ 30.00	PASS
	Ant2	5825	1.03	≤ 30.00	PASS
	Total	5825	3.07	≤ 30.00	PASS
11AC40MIMO	Ant1	5190	-0.83	≤ 11.00	PASS
	Ant2	5190	1.01	≤ 11.00	PASS
	Total	5190	3.20	≤ 11.00	PASS
	Ant1	5230	-1.08	≤ 11.00	PASS
	Ant2	5230	2.36	≤ 11.00	PASS
	Total	5230	3.98	≤ 11.00	PASS
	Ant1	5270	-1.46	≤ 11.00	PASS
	Ant2	5270	-0.35	≤ 11.00	PASS
	Total	5270	2.14	≤ 11.00	PASS
	Ant1	5310	-3.93	≤ 11.00	PASS
	Ant2	5310	-0.95	≤ 11.00	PASS
	Total	5310	0.97	≤ 11.00	PASS
	Ant1	5510	-1.85	≤ 11.00	PASS
	Ant2	5510	0.17	≤ 11.00	PASS
	Total	5510	2.29	≤ 11.00	PASS
	Ant1	5550	-0.14	≤ 11.00	PASS
	Ant2	5550	-1.57	≤ 11.00	PASS
	Total	5550	2.21	≤ 11.00	PASS
	Ant1	5670	-0.81	≤ 11.00	PASS
	Ant2	5670	0.89	≤ 11.00	PASS

	Total	5670	3.13	≤11.00	PASS
	Ant1	5755	-3.58	≤30.00	PASS
	Ant2	5755	1.16	≤30.00	PASS
	Total	5755	2.42	≤30.00	PASS
	Ant1	5795	-3.16	≤30.00	PASS
	Ant2	5795	3.08	≤30.00	PASS
	Total	5795	4.01	≤30.00	PASS
11AC80MIMO	Ant1	5210	-7.25	≤11.00	PASS
	Ant2	5210	-3.7	≤11.00	PASS
	Total	5210	-2.11	≤11.00	PASS
	Ant1	5290	-7.63	≤11.00	PASS
	Ant2	5290	-5.27	≤11.00	PASS
	Total	5290	-3.28	≤11.00	PASS
	Ant1	5530	-6.53	≤11.00	PASS
	Ant2	5530	-4.22	≤11.00	PASS
	Total	5530	-2.21	≤11.00	PASS
	Ant1	5610	-3.95	≤11.00	PASS
	Ant2	5610	-1.2	≤11.00	PASS
	Total	5610	0.65	≤11.00	PASS
	Ant1	5775	-9.31	≤30.00	PASS
	Ant2	5775	-0.57	≤30.00	PASS
	Total	5775	-0.03	≤30.00	PASS
11AX20MIMO	Ant1	5180	-1.6	≤11.00	PASS
	Ant2	5180	1.42	≤11.00	PASS
	Total	5180	3.18	≤11.00	PASS
	Ant1	5200	-0.96	≤11.00	PASS
	Ant2	5200	0.96	≤11.00	PASS
	Total	5200	3.12	≤11.00	PASS
	Ant1	5240	0.01	≤11.00	PASS
	Ant2	5240	1.41	≤11.00	PASS
	Total	5240	3.78	≤11.00	PASS
	Ant1	5260	0.84	≤11.00	PASS
	Ant2	5260	0.75	≤11.00	PASS
	Total	5260	3.40	≤11.00	PASS
	Ant1	5280	0.1	≤11.00	PASS
	Ant2	5280	1.11	≤11.00	PASS
	Total	5280	3.64	≤11.00	PASS

	Ant1	5320	-0.85	≤11.00	PASS
	Ant2	5320	2.42	≤11.00	PASS
	Total	5320	4.10	≤11.00	PASS
	Ant1	5500	0.82	≤11.00	PASS
	Ant2	5500	2.14	≤11.00	PASS
	Total	5500	4.54	≤11.00	PASS
	Ant1	5580	1.02	≤11.00	PASS
	Ant2	5580	4.73	≤11.00	PASS
	Total	5580	6.27	≤11.00	PASS
	Ant1	5700	-0.48	≤11.00	PASS
	Ant2	5700	1.31	≤11.00	PASS
	Total	5700	3.52	≤11.00	PASS
	Ant1	5745	-2.89	≤30.00	PASS
	Ant2	5745	0.87	≤30.00	PASS
	Total	5745	2.40	≤30.00	PASS
	Ant1	5785	-1.26	≤30.00	PASS
	Ant2	5785	1.28	≤30.00	PASS
	Total	5785	3.20	≤30.00	PASS
	Ant1	5825	-2.47	≤30.00	PASS
	Ant2	5825	-1.88	≤30.00	PASS
	Total	5825	0.85	≤30.00	PASS
11AX40MIMO	Ant1	5190	-4.29	≤11.00	PASS
	Ant2	5190	-0.75	≤11.00	PASS
	Total	5190	0.84	≤11.00	PASS
	Ant1	5230	-3.45	≤11.00	PASS
	Ant2	5230	-0.2	≤11.00	PASS
	Total	5230	1.48	≤11.00	PASS
	Ant1	5270	-3.46	≤11.00	PASS
	Ant2	5270	-0.71	≤11.00	PASS
	Total	5270	1.14	≤11.00	PASS
	Ant1	5310	-3.62	≤11.00	PASS
	Ant2	5310	1.06	≤11.00	PASS
	Total	5310	1.98	≤11.00	PASS
	Ant1	5510	-3.02	≤11.00	PASS
	Ant2	5510	-0.94	≤11.00	PASS
	Total	5510	1.15	≤11.00	PASS
	Ant1	5550	-1.17	≤11.00	PASS

	Ant2	5550	-1.26	≤11.00	PASS
	Total	5550	1.80	≤11.00	PASS
	Ant1	5670	-2.89	≤11.00	PASS
	Ant2	5670	1.85	≤11.00	PASS
	Total	5670	3.11	≤11.00	PASS
	Ant1	5755	-4.29	≤30.00	PASS
	Ant2	5755	4.28	≤30.00	PASS
	Total	5755	4.85	≤30.00	PASS
	Ant1	5795	-4.59	≤30.00	PASS
	Ant2	5795	3.68	≤30.00	PASS
	Total	5795	4.28	≤30.00	PASS
11AX80MIMO	Ant1	5210	-5.71	≤11.00	PASS
	Ant2	5210	-5.7	≤11.00	PASS
	Total	5210	-2.69	≤11.00	PASS
	Ant1	5290	-10.45	≤11.00	PASS
	Ant2	5290	-3.85	≤11.00	PASS
	Total	5290	-2.99	≤11.00	PASS
	Ant1	5530	-4.97	≤11.00	PASS
	Ant2	5530	-2.14	≤11.00	PASS
	Total	5530	-0.32	≤11.00	PASS
	Ant1	5610	-4.03	≤11.00	PASS
	Ant2	5610	0.62	≤11.00	PASS
	Total	5610	1.90	≤11.00	PASS
	Ant1	5775	-7.78	≤30.00	PASS
	Ant2	5775	-0.91	≤30.00	PASS
	Total	5775	-0.10	≤30.00	PASS

Test Graphs see Appendix A.

The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz, The Factor= $10 \cdot \log(500/300)=2.22$ is compensated in the Offset of graph.

The Duty Cycle Factor is compensated in the Offset of graph.

7.7. Frequency Stability Measurement

7.7.1. Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

7.7.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

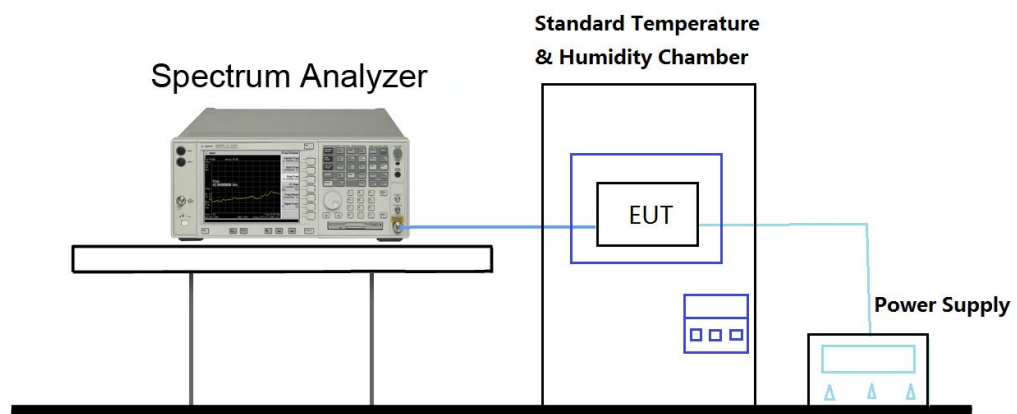
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.7.3. Test Setup



7.7.4. Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-100000.00	-19.305019	20	PASS
			LV	NT	-100000.00	-19.305019	20	PASS
			HV	NT	-100000.00	-19.305019	20	PASS
	Ant2	5180	NV	NT	-60000.00	-11.583012	20	PASS
			LV	NT	-60000.00	-11.583012	20	PASS
			HV	NT	-80000.00	-15.444015	20	PASS
	Ant1	5200	NV	NT	-100000.00	-19.230769	20	PASS
			LV	NT	-100000.00	-19.230769	20	PASS
			HV	NT	-80000.00	-15.384615	20	PASS
	Ant2	5200	NV	NT	-100000.00	-19.230769	20	PASS
			LV	NT	-100000.00	-19.230769	20	PASS
			HV	NT	-80000.00	-15.384615	20	PASS
	Ant1	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
	Ant2	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-100000.00	-19.083969	20	PASS
			HV	NT	-100000.00	-19.083969	20	PASS
	Ant1	5260	NV	NT	-100000.00	-19.011407	20	PASS
			LV	NT	-100000.00	-19.011407	20	PASS
			HV	NT	-60000.00	-11.406844	20	PASS
	Ant2	5260	NV	NT	-60000.00	-11.406844	20	PASS
			LV	NT	-80000.00	-15.209125	20	PASS
			HV	NT	-60000.00	-11.406844	20	PASS
	Ant1	5280	NV	NT	-80000.00	-15.151515	20	PASS
			LV	NT	-100000.00	-18.939394	20	PASS
			HV	NT	-100000.00	-18.939394	20	PASS
	Ant2	5280	NV	NT	-60000.00	-11.363636	20	PASS
			LV	NT	-80000.00	-15.151515	20	PASS
			HV	NT	60000.00	11.363636	20	PASS
	Ant1	5320	NV	NT	-60000.00	-11.278195	20	PASS
			LV	NT	-100000.00	-18.796992	20	PASS
			HV	NT	-80000.00	-15.037594	20	PASS

	Ant2	5320	NV	NT	-60000.00	-11.278195	20	PASS
			LV	NT	-100000.00	-18.796992	20	PASS
			HV	NT	-80000.00	-15.037594	20	PASS
	Ant1	5500	NV	NT	-80000.00	-14.545455	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant2	5500	NV	NT	-60000.00	-10.909091	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant1	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant2	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant1	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-100000.00	-17.543860	20	PASS
	Ant2	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-100000.00	-17.543860	20	PASS
	Ant1	5745	NV	NT	-100000.00	-17.406440	20	PASS
			LV	NT	-100000.00	-17.406440	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS
	Ant2	5745	NV	NT	-100000.00	-17.406440	20	PASS
			LV	NT	-100000.00	-17.406440	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS
	Ant1	5785	NV	NT	-100000.00	-17.286085	20	PASS
			LV	NT	-80000.00	-13.828868	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
	Ant2	5785	NV	NT	-100000.00	-17.286085	20	PASS
			LV	NT	-100000.00	-17.286085	20	PASS
			HV	NT	-100000.00	-17.286085	20	PASS
	Ant1	5825	NV	NT	-100000.00	-17.167382	20	PASS
			LV	NT	-100000.00	-17.167382	20	PASS
			HV	NT	-100000.00	-17.167382	20	PASS
	Ant2	5825	NV	NT	-100000.00	-17.167382	20	PASS

			LV	NT	-100000.00	-17.167382	20	PASS
			HV	NT	-100000.00	-17.167382	20	PASS
11N20MIM O	Ant1	5180	NV	NT	-60000.00	-11.583012	20	PASS
			LV	NT	-80000.00	-15.444015	20	PASS
			HV	NT	-40000.00	-7.722008	20	PASS
	Ant2	5180	NV	NT	-100000.00	-19.305019	20	PASS
			LV	NT	-100000.00	-19.305019	20	PASS
			HV	NT	-80000.00	-15.444015	20	PASS
	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
			LV	NT	-60000.00	-11.538462	20	PASS
			HV	NT	-60000.00	-11.538462	20	PASS
	Ant2	5200	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-60000.00	-11.538462	20	PASS
			HV	NT	-60000.00	-11.538462	20	PASS
	Ant1	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
	Ant2	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
	Ant1	5260	NV	NT	-100000.00	-19.011407	20	PASS
			LV	NT	-80000.00	-15.209125	20	PASS
			HV	NT	-80000.00	-15.209125	20	PASS
	Ant2	5260	NV	NT	80000.00	15.209125	20	PASS
			LV	NT	40000.00	7.604563	20	PASS
			HV	NT	40000.00	7.604563	20	PASS
	Ant1	5280	NV	NT	-80000.00	-15.151515	20	PASS
			LV	NT	-80000.00	-15.151515	20	PASS
			HV	NT	-80000.00	-15.151515	20	PASS
	Ant2	5280	NV	NT	-60000.00	-11.363636	20	PASS
			LV	NT	-60000.00	-11.363636	20	PASS
			HV	NT	-40000.00	-7.575758	20	PASS
	Ant1	5320	NV	NT	-80000.00	-15.037594	20	PASS
			LV	NT	-80000.00	-15.037594	20	PASS
			HV	NT	-80000.00	-15.037594	20	PASS
	Ant2	5320	NV	NT	-80000.00	-15.037594	20	PASS
			LV	NT	-100000.00	-18.796992	20	PASS

			HV	NT	-100000.00	-18.796992	20	PASS
	Ant1	5500	NV	NT	-100000.00	-18.181818	20	PASS
			LV	NT	-80000.00	-14.545455	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant2	5500	NV	NT	-100000.00	-18.181818	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant1	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant2	5580	NV	NT	-80000.00	-14.336918	20	PASS
			LV	NT	-80000.00	-14.336918	20	PASS
			HV	NT	-60000.00	-10.752688	20	PASS
	Ant1	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-80000.00	-14.035088	20	PASS
			HV	NT	-80000.00	-14.035088	20	PASS
	Ant2	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-80000.00	-14.035088	20	PASS
	Ant1	5745	NV	NT	-60000.00	-10.443864	20	PASS
			LV	NT	-80000.00	-13.925152	20	PASS
			HV	NT	-80000.00	-13.925152	20	PASS
	Ant2	5745	NV	NT	-60000.00	-10.443864	20	PASS
			LV	NT	-60000.00	-10.443864	20	PASS
			HV	NT	-60000.00	-10.443864	20	PASS
	Ant1	5785	NV	NT	-60000.00	-10.371651	20	PASS
			LV	NT	-80000.00	-13.828868	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
	Ant2	5785	NV	NT	-60000.00	-10.371651	20	PASS
			LV	NT	-80000.00	-13.828868	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
	Ant1	5825	NV	NT	-60000.00	-10.300429	20	PASS
			LV	NT	-60000.00	-10.300429	20	PASS
			HV	NT	-60000.00	-10.300429	20	PASS
	Ant2	5825	NV	NT	-60000.00	-10.300429	20	PASS
			LV	NT	-80000.00	-13.733906	20	PASS
			HV	NT	-100000.00	-17.167382	20	PASS

11N40MIM O	Ant1	5190	NV	NT	-80000.00	-15.414258	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-80000.00	-15.414258	20	PASS
			HV	NT	-80000.00	-15.414258	20	PASS
	Ant1	5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-40000.00	-7.648184	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
	Ant2	5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
	Ant1	5270	NV	NT	-80000.00	-15.180266	20	PASS
			LV	NT	-80000.00	-15.180266	20	PASS
			HV	NT	-80000.00	-15.180266	20	PASS
	Ant2	5270	NV	NT	-40000.00	-7.590133	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
	Ant1	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS
	Ant2	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS
	Ant1	5510	NV	NT	-40000.00	-7.259528	20	PASS
			LV	NT	-40000.00	-7.259528	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5510	NV	NT	-80000.00	-14.519056	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-14.519056	20	PASS
	Ant1	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant2	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant1	5670	NV	NT	-80000.00	-14.109347	20	PASS

			LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
			NV	NT	-80000.00	-14.109347	20	PASS
	Ant2	5670	LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
			NV	NT	-80000.00	-13.900956	20	PASS
	Ant1	5755	LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS
			NV	NT	-80000.00	-13.900956	20	PASS
	Ant2	5755	LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS
			NV	NT	-80000.00	-13.805004	20	PASS
	Ant1	5795	LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
			NV	NT	-80000.00	-13.805004	20	PASS
	Ant2	5795	LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
			NV	NT	-80000.00	-13.805004	20	PASS
11AC20MI MO	Ant1	5180	LV	NT	-100000.00	-19.305019	20	PASS
			HV	NT	-100000.00	-19.305019	20	PASS
			NV	NT	-100000.00	-19.305019	20	PASS
	Ant2	5180	LV	NT	-100000.00	-19.305019	20	PASS
			HV	NT	-100000.00	-19.305019	20	PASS
			NV	NT	-100000.00	-19.305019	20	PASS
	Ant1	5200	LV	NT	-80000.00	-15.384615	20	PASS
			HV	NT	-80000.00	-15.384615	20	PASS
			NV	NT	-60000.00	-11.538462	20	PASS
	Ant2	5200	LV	NT	-80000.00	-15.384615	20	PASS
			HV	NT	-60000.00	-11.538462	20	PASS
			NV	NT	-60000.00	-11.538462	20	PASS
	Ant1	5240	LV	NT	-100000.00	-19.083969	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
			NV	NT	-80000.00	-15.267176	20	PASS
	Ant2	5240	LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
			NV	NT	-100000.00	-19.083969	20	PASS
	Ant1	5260	LV	NT	-100000.00	-19.011407	20	PASS
			NV	NT	-100000.00	-19.011407	20	PASS

	Ant2	5260	HV	NT	-100000.00	-19.011407	20	PASS
			NV	NT	-80000.00	-15.209125	20	PASS
			LV	NT	-80000.00	-15.209125	20	PASS
			HV	NT	-80000.00	-15.209125	20	PASS
	Ant1	5280	NV	NT	-80000.00	-15.151515	20	PASS
			LV	NT	-100000.00	-18.939394	20	PASS
			HV	NT	-100000.00	-18.939394	20	PASS
	Ant2	5280	NV	NT	-60000.00	-11.363636	20	PASS
			LV	NT	-60000.00	-11.363636	20	PASS
			HV	NT	-60000.00	-11.363636	20	PASS
	Ant1	5320	NV	NT	-100000.00	-18.796992	20	PASS
			LV	NT	-80000.00	-15.037594	20	PASS
			HV	NT	-80000.00	-15.037594	20	PASS
	Ant2	5320	NV	NT	-100000.00	-18.796992	20	PASS
			LV	NT	-100000.00	-18.796992	20	PASS
			HV	NT	-100000.00	-18.796992	20	PASS
	Ant1	5500	NV	NT	-100000.00	-18.181818	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant2	5500	NV	NT	-100000.00	-18.181818	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-100000.00	-18.181818	20	PASS
	Ant1	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant2	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant1	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-100000.00	-17.543860	20	PASS
	Ant2	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-100000.00	-17.543860	20	PASS
	Ant1	5745	NV	NT	-100000.00	-17.406440	20	PASS
			LV	NT	-80000.00	-13.925152	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS

	Ant2	5745	NV	NT	-100000.00	-17.406440	20	PASS
			LV	NT	-100000.00	-17.406440	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS
	Ant1	5785	NV	NT	-100000.00	-17.286085	20	PASS
			LV	NT	-100000.00	-17.286085	20	PASS
			HV	NT	-100000.00	-17.286085	20	PASS
	Ant2	5785	NV	NT	-100000.00	-17.286085	20	PASS
			LV	NT	-100000.00	-17.286085	20	PASS
			HV	NT	-100000.00	-17.286085	20	PASS
	Ant1	5825	NV	NT	-100000.00	-17.167382	20	PASS
			LV	NT	-100000.00	-17.167382	20	PASS
			HV	NT	-100000.00	-17.167382	20	PASS
11AC40MI MO	Ant1	5190	NV	NT	-100000.00	-17.167382	20	PASS
			LV	NT	-100000.00	-17.167382	20	PASS
			HV	NT	-80000.00	-13.733906	20	PASS
	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant1	5230	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant2	5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
	Ant1	5270	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
	Ant2	5270	NV	NT	-80000.00	-15.180266	20	PASS
			LV	NT	-80000.00	-15.180266	20	PASS
			HV	NT	-80000.00	-15.180266	20	PASS
	Ant1	5310	NV	NT	-80000.00	-15.180266	20	PASS
			LV	NT	80000.00	15.180266	20	PASS
			HV	NT	80000.00	15.180266	20	PASS
	Ant2	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS
	Ant1	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS
	Ant2	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS

			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-80000.00	-15.065913	20	PASS
	Ant1	5510	NV	NT	-40000.00	-7.259528	20	PASS
			LV	NT	-80000.00	-14.519056	20	PASS
			HV	NT	-40000.00	-7.259528	20	PASS
	Ant2	5510	NV	NT	-40000.00	-7.259528	20	PASS
			LV	NT	-80000.00	-14.519056	20	PASS
			HV	NT	-40000.00	-7.259528	20	PASS
	Ant1	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant2	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant1	5670	NV	NT	-80000.00	-14.109347	20	PASS
			LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
	Ant2	5670	NV	NT	-80000.00	-14.109347	20	PASS
			LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
	Ant1	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
	Ant2	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-40000.00	-6.950478	20	PASS
	Ant1	5795	NV	NT	-80000.00	-13.805004	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
	Ant2	5795	NV	NT	-80000.00	-13.805004	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-80000.00	-13.805004	20	PASS
11AC80MI MO	Ant1	5210	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	-80000.00	-15.355086	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS
	Ant2	5210	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	0.00	0.000000	20	PASS

	Ant1	5290	HV	NT	-80000.00	-15.355086	20	PASS
			NV	NT	80000.00	15.122873	20	PASS
			LV	NT	80000.00	15.122873	20	PASS
			HV	NT	80000.00	15.122873	20	PASS
	Ant2	5290	NV	NT	0.00	0.000000	20	PASS
			LV	NT	80000.00	15.122873	20	PASS
			HV	NT	80000.00	15.122873	20	PASS
	Ant1	5530	NV	NT	-80000.00	-14.466546	20	PASS
			LV	NT	80000.00	14.466546	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5530	NV	NT	-80000.00	-14.466546	20	PASS
			LV	NT	-80000.00	-14.466546	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5610	NV	NT	-80000.00	-14.260250	20	PASS
			LV	NT	-80000.00	-14.260250	20	PASS
			HV	NT	-80000.00	-14.260250	20	PASS
	Ant2	5610	NV	NT	-80000.00	-14.260250	20	PASS
			LV	NT	-80000.00	-14.260250	20	PASS
			HV	NT	-80000.00	-14.260250	20	PASS
	Ant1	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS
	Ant2	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS
11AX20MI MO	Ant1	5180	NV	NT	-80000.00	-15.444015	20	PASS
			LV	NT	-80000.00	-15.444015	20	PASS
			HV	NT	-60000.00	-11.583012	20	PASS
	Ant2	5180	NV	NT	-80000.00	-15.444015	20	PASS
			LV	NT	-80000.00	-15.444015	20	PASS
			HV	NT	-100000.00	-19.305019	20	PASS
	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
			LV	NT	-80000.00	-15.384615	20	PASS
			HV	NT	-60000.00	-11.538462	20	PASS
	Ant2	5200	NV	NT	-100000.00	-19.230769	20	PASS
			LV	NT	-80000.00	-15.384615	20	PASS
			HV	NT	-80000.00	-15.384615	20	PASS

	Ant1	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
	Ant2	5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-80000.00	-15.267176	20	PASS
	Ant1	5260	NV	NT	-80000.00	-15.209125	20	PASS
			LV	NT	-100000.00	-19.011407	20	PASS
			HV	NT	-80000.00	-15.209125	20	PASS
	Ant2	5260	NV	NT	-80000.00	-15.209125	20	PASS
			LV	NT	-80000.00	-15.209125	20	PASS
			HV	NT	-80000.00	-15.209125	20	PASS
	Ant1	5280	NV	NT	-80000.00	-15.151515	20	PASS
			LV	NT	-80000.00	-15.151515	20	PASS
			HV	NT	-80000.00	-15.151515	20	PASS
	Ant2	5280	NV	NT	-80000.00	-15.151515	20	PASS
			LV	NT	-80000.00	-15.151515	20	PASS
			HV	NT	-80000.00	-15.151515	20	PASS
	Ant1	5320	NV	NT	-80000.00	-15.037594	20	PASS
			LV	NT	-80000.00	-15.037594	20	PASS
			HV	NT	-80000.00	-15.037594	20	PASS
	Ant2	5320	NV	NT	-80000.00	-15.037594	20	PASS
			LV	NT	-100000.00	-18.796992	20	PASS
			HV	NT	-100000.00	-18.796992	20	PASS
	Ant1	5500	NV	NT	-100000.00	-18.181818	20	PASS
			LV	NT	-100000.00	-18.181818	20	PASS
			HV	NT	-80000.00	-14.545455	20	PASS
	Ant2	5500	NV	NT	-80000.00	-14.545455	20	PASS
			LV	NT	-80000.00	-14.545455	20	PASS
			HV	NT	-80000.00	-14.545455	20	PASS
	Ant1	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-100000.00	-17.921147	20	PASS
			HV	NT	-100000.00	-17.921147	20	PASS
	Ant2	5580	NV	NT	-100000.00	-17.921147	20	PASS
			LV	NT	-80000.00	-14.336918	20	PASS
			HV	NT	-80000.00	-14.336918	20	PASS
	Ant1	5700	NV	NT	-80000.00	-14.035088	20	PASS

			LV	NT	-80000.00	-14.035088	20	PASS
			HV	NT	-80000.00	-14.035088	20	PASS
	Ant2	5700	NV	NT	-100000.00	-17.543860	20	PASS
			LV	NT	-100000.00	-17.543860	20	PASS
			HV	NT	-100000.00	-17.543860	20	PASS
	Ant1	5745	NV	NT	-80000.00	-13.925152	20	PASS
			LV	NT	-80000.00	-13.925152	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS
	Ant2	5745	NV	NT	-100000.00	-17.406440	20	PASS
			LV	NT	-80000.00	-13.925152	20	PASS
			HV	NT	-100000.00	-17.406440	20	PASS
	Ant1	5785	NV	NT	-100000.00	-17.286085	20	PASS
			LV	NT	-100000.00	-17.286085	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
	Ant2	5785	NV	NT	-80000.00	-13.828868	20	PASS
			LV	NT	-80000.00	-13.828868	20	PASS
			HV	NT	-80000.00	-13.828868	20	PASS
	Ant1	5825	NV	NT	-80000.00	-13.733906	20	PASS
			LV	NT	-80000.00	-13.733906	20	PASS
			HV	NT	-80000.00	-13.733906	20	PASS
	Ant2	5825	NV	NT	-80000.00	-13.733906	20	PASS
			LV	NT	-100000.00	-17.167382	20	PASS
			HV	NT	-100000.00	-17.167382	20	PASS
11AX40MI MO	Ant1	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant2	5190	NV	NT	-80000.00	-15.414258	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
	Ant1	5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS
	Ant2	5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
	Ant1	5270	NV	NT	-80000.00	-15.180266	20	PASS
			LV	NT	-80000.00	-15.180266	20	PASS

			HV	NT	-40000.00	-7.590133	20	PASS
	Ant2	5270	NV	NT	-40000.00	-7.590133	20	PASS
			LV	NT	-40000.00	-7.590133	20	PASS
			HV	NT	-40000.00	-7.590133	20	PASS
	Ant1	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-40000.00	-7.532957	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
	Ant2	5310	NV	NT	-80000.00	-15.065913	20	PASS
			LV	NT	-80000.00	-15.065913	20	PASS
			HV	NT	-40000.00	-7.532957	20	PASS
	Ant1	5510	NV	NT	-80000.00	-14.519056	20	PASS
			LV	NT	-80000.00	-14.519056	20	PASS
			HV	NT	-80000.00	-14.519056	20	PASS
	Ant2	5510	NV	NT	-80000.00	-14.519056	20	PASS
			LV	NT	-80000.00	-14.519056	20	PASS
			HV	NT	-80000.00	-14.519056	20	PASS
	Ant1	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant2	5550	NV	NT	-80000.00	-14.414414	20	PASS
			LV	NT	-80000.00	-14.414414	20	PASS
			HV	NT	-80000.00	-14.414414	20	PASS
	Ant1	5670	NV	NT	-80000.00	-14.109347	20	PASS
			LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
	Ant2	5670	NV	NT	-80000.00	-14.109347	20	PASS
			LV	NT	-80000.00	-14.109347	20	PASS
			HV	NT	-80000.00	-14.109347	20	PASS
	Ant1	5755	NV	NT	-80000.00	-13.900956	20	PASS
			LV	NT	-80000.00	-13.900956	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS
	Ant2	5755	NV	NT	-40000.00	-6.950478	20	PASS
			LV	NT	-40000.00	-6.950478	20	PASS
			HV	NT	-80000.00	-13.900956	20	PASS
	Ant1	5795	NV	NT	-80000.00	-13.805004	20	PASS
			LV	NT	-80000.00	-13.805004	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS

	Ant2	5795	NV	NT	-80000.00	-13.805004	20	PASS
			LV	NT	-40000.00	-6.902502	20	PASS
			HV	NT	-40000.00	-6.902502	20	PASS
11AX80MI MO	Ant1	5210	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-15.355086	20	PASS
	Ant2	5210	NV	NT	-80000.00	-15.355086	20	PASS
			LV	NT	-80000.00	-15.355086	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5290	NV	NT	-80000.00	-15.122873	20	PASS
			LV	NT	-80000.00	-15.122873	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5290	NV	NT	-80000.00	-15.122873	20	PASS
			LV	NT	-80000.00	-15.122873	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant1	5530	NV	NT	-80000.00	-14.466546	20	PASS
			LV	NT	-80000.00	-14.466546	20	PASS
			HV	NT	-80000.00	-14.466546	20	PASS
	Ant2	5530	NV	NT	-80000.00	-14.466546	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-14.466546	20	PASS
	Ant1	5610	NV	NT	-80000.00	-14.260250	20	PASS
			LV	NT	-80000.00	-14.260250	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5610	NV	NT	-80000.00	-14.260250	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-80000.00	-14.260250	20	PASS
	Ant1	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	-80000.00	-13.852814	20	PASS
	Ant2	5775	NV	NT	-80000.00	-13.852814	20	PASS
			LV	NT	-80000.00	-13.852814	20	PASS
			HV	NT	0.00	0.000000	20	PASS

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} * 10⁶.

7.8. Radiated Spurious Emission Measurement

7.8.1. Test Limit

- (1) For transmitters operating in the 5.15–5.25 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
- (2) For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
- (3) For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
- (4) For transmitters operating solely in the 5.725–5.850 GHz band:
 - (i) All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
 - (ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2. Test Procedure Used

KDB 789033 D02v02r01 – Section G

ANSI C63.10-2013 – Section 12.7.7.2, 12.7.7.6, 12.7.5

7.8.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Quasi-Peak Measurements below 1GHz

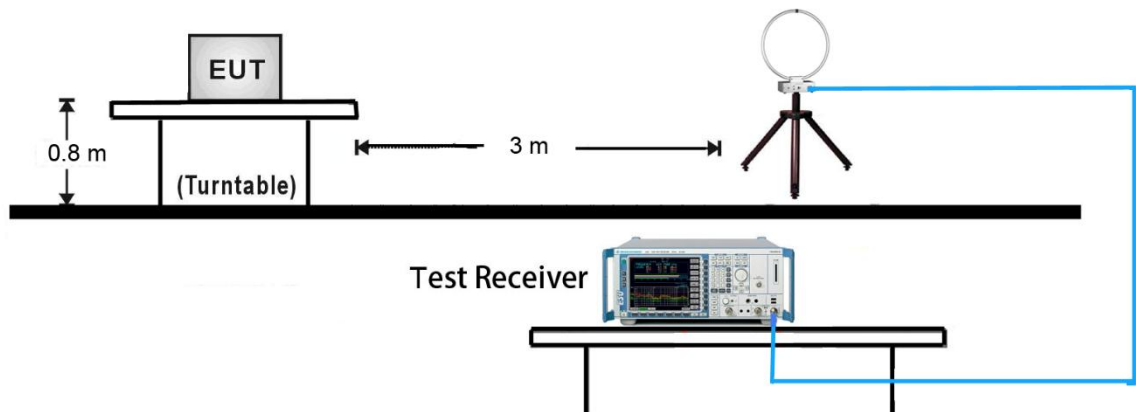
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

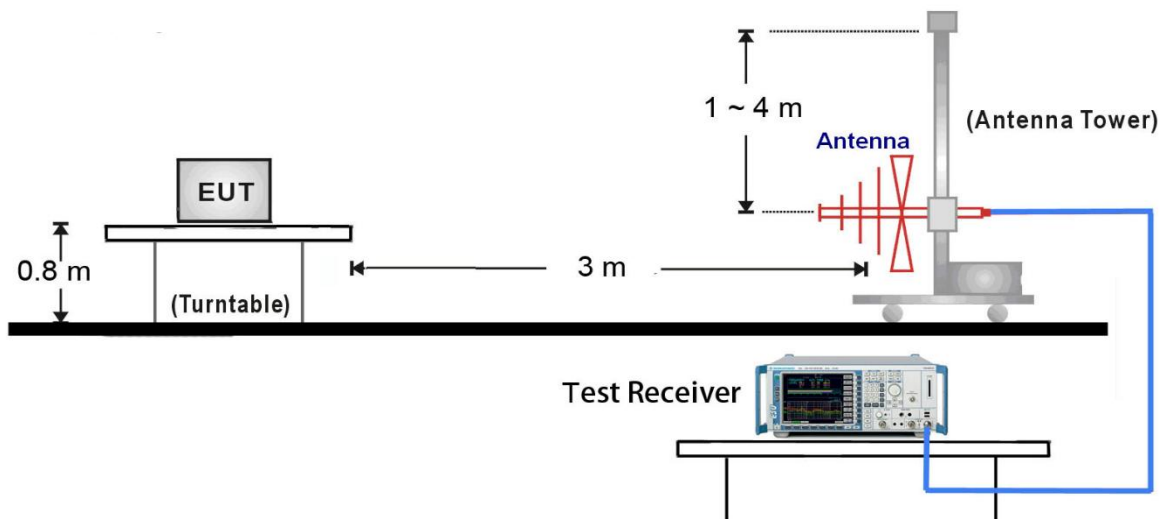
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.8.4. Test Setup

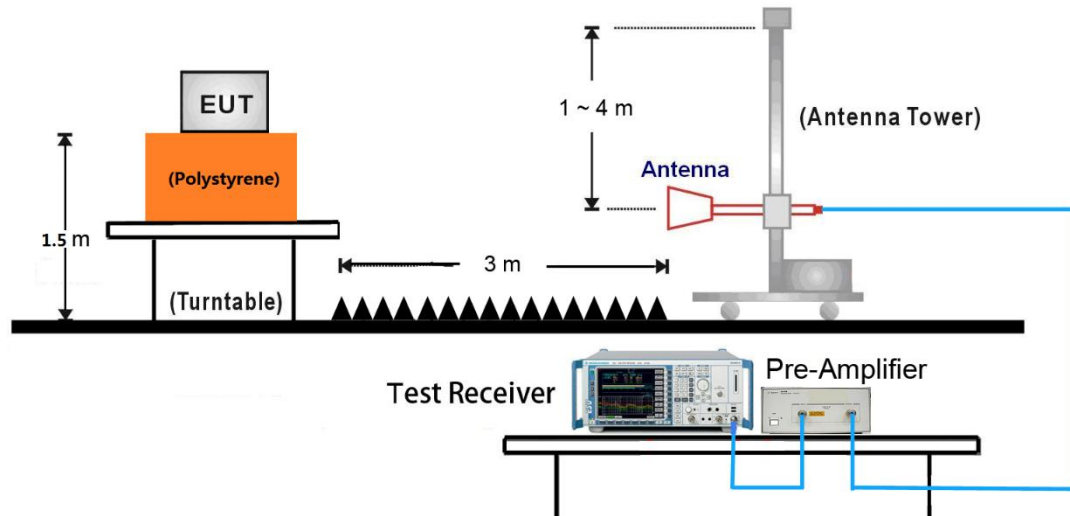
9kHz ~ 30MHz Test Setup:



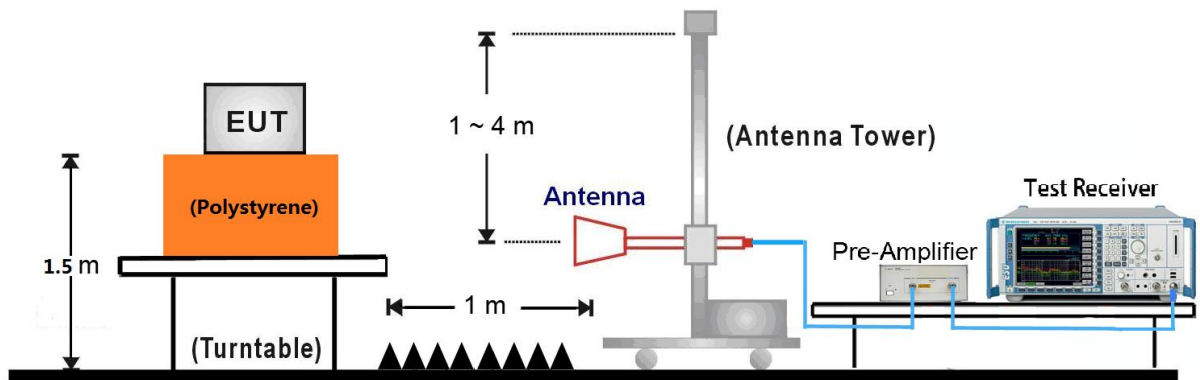
30MHz ~ 1GHz Test Setup:



1GHz ~18GHz Test Setup:



18GHz ~40GHz Test Setup:



7.8.5. Test Result

The Conducted Spurious Emission test data:

Test Mode	Antenna	Channel	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5124.84	-40.1	≤-27	PASS
			5360~40000	10364.33	-41.68	≤-27	PASS
	Ant2	5180	30~5140	5136.93	-39.31	≤-27	PASS
			5360~40000	5361.15	-45.49	≤-27	PASS
	Ant1	5200	30~5140	5139.83	-42.23	≤-27	PASS
			5360~40000	10400.12	-38.62	≤-27	PASS
	Ant2	5200	30~5140	5131.82	-47.16	≤-27	PASS
			5360~40000	10403.58	-45.95	≤-27	PASS
	Ant1	5240	30~5140	5130.97	-44.07	≤-27	PASS
			5360~40000	10480.95	-37.94	≤-27	PASS
	Ant2	5240	30~5140	5123.14	-48.67	≤-27	PASS
			5360~40000	10483.26	-43.84	≤-27	PASS
	Ant1	5260	30~5140	5138.98	-46.53	≤-27	PASS
			5360~40000	10521.36	-38.8	≤-27	PASS
	Ant2	5260	30~5140	5122.8	-50.99	≤-27	PASS
			5360~40000	5361.15	-45.12	≤-27	PASS
	Ant1	5280	30~5140	5135.74	-48.91	≤-27	PASS
			5360~40000	5361.15	-39.94	≤-27	PASS
	Ant2	5280	30~5140	5133.53	-51.84	≤-27	PASS
			5360~40000	10557.15	-44.19	≤-27	PASS
	Ant1	5320	30~5140	5131.31	-51.19	≤-27	PASS
			5360~40000	5363.46	-38.1	≤-27	PASS
	Ant2	5320	30~5140	5136.93	-51.35	≤-27	PASS
			5360~40000	5380.78	-36.71	≤-27	PASS
	Ant1	5500	30~5460	5438.64	-36.59	≤-27	PASS
			5735~40000	11000.39	-43.21	≤-27	PASS
	Ant2	5500	30~5460	5438.64	-38.52	≤-27	PASS
			5735~40000	11003.81	-47.83	≤-27	PASS
	Ant1	5580	30~5460	5455.11	-42.76	≤-27	PASS
			5735~40000	34928.78	-48.66	≤-27	PASS
	Ant2	5580	30~5460	5430.14	-47.76	≤-27	PASS
			5735~40000	11162.58	-38.89	≤-27	PASS
	Ant1	5700	30~5460	5054.2	-49.56	≤-27	PASS

	Ant2	5700	5735~40000	5738.43	-42.9	≤ -27	PASS
			30~5460	5054.02	-51.1	≤ -27	PASS
			5735~40000	5737.28	-39.51	≤ -27	PASS
	Ant1	5745	30~5650	5648.69	-42.44	≤ -27	PASS
			5925~40000	5936.36	-46.44	≤ -27	PASS
	Ant2	5745	30~5650	5641.76	-42.17	≤ -27	PASS
			5925~40000	5925	-47.49	≤ -27	PASS
	Ant1	5785	30~5650	5618.15	-42.64	≤ -27	PASS
			5925~40000	5927.27	-43.57	≤ -27	PASS
	Ant2	5785	30~5650	5637.26	-44.55	≤ -27	PASS
			5925~40000	5930.68	-43.65	≤ -27	PASS
	Ant1	5825	30~5650	5648.13	-45.9	≤ -27	PASS
			5925~40000	5925	-40.11	≤ -27	PASS
11N20MIMO	Ant1	5180	30~5140	5134.21	-45.18	≤ -27	PASS
			5360~40000	10359.71	-45.34	≤ -27	PASS
	Ant2	5180	30~5140	5138.64	-38.75	≤ -27	PASS
			5360~40000	5365.77	-46.85	≤ -27	PASS
	Ant1	5200	30~5140	5134.89	-44	≤ -27	PASS
			5360~40000	10405.89	-41.24	≤ -27	PASS
	Ant2	5200	30~5140	5127.05	-39.95	≤ -27	PASS
			5360~40000	5366.93	-43.04	≤ -27	PASS
	Ant1	5240	30~5140	5135.57	-47.59	≤ -27	PASS
			5360~40000	10476.33	-40.56	≤ -27	PASS
	Ant2	5240	30~5140	5132.34	-43.28	≤ -27	PASS
			5360~40000	5366.93	-41.42	≤ -27	PASS
	Ant1	5260	30~5140	5137.45	-49.3	≤ -27	PASS
			5360~40000	10515.59	-42.55	≤ -27	PASS
	Ant2	5260	30~5140	5134.04	-46.8	≤ -27	PASS
			5360~40000	5361.15	-41.33	≤ -27	PASS
	Ant1	5280	30~5140	5136.42	-50.43	≤ -27	PASS
			5360~40000	5386.56	-41.96	≤ -27	PASS
	Ant2	5280	30~5140	5132.34	-45.34	≤ -27	PASS
			5360~40000	5371.55	-35.25	≤ -27	PASS
	Ant1	5320	30~5140	5108.66	-54.06	≤ -27	PASS
			5360~40000	5370.39	-44.32	≤ -27	PASS

	Ant2	5320	30~5140	5127.74	-50.95	≤ -27	PASS
			5360~40000	5378.47	-37.56	≤ -27	PASS
	Ant1	5500	30~5460	5457.47	-36.43	≤ -27	PASS
			5735~40000	10999.25	-43.24	≤ -27	PASS
	Ant2	5500	30~5460	5454.21	-36.15	≤ -27	PASS
			5735~40000	11001.53	-45.31	≤ -27	PASS
	Ant1	5580	30~5460	5459.46	-47.6	≤ -27	PASS
			5735~40000	38898.95	-48.96	≤ -27	PASS
	Ant2	5580	30~5460	5453.48	-42.23	≤ -27	PASS
			5735~40000	11161.43	-38.04	≤ -27	PASS
	Ant1	5700	30~5460	5046.42	-48.62	≤ -27	PASS
			5735~40000	5750.99	-42.26	≤ -27	PASS
	Ant2	5700	30~5460	5046.96	-48.63	≤ -27	PASS
			5735~40000	5745.28	-37.74	≤ -27	PASS
	Ant1	5745	30~5650	5640.26	-42.31	≤ -27	PASS
			5925~40000	5929.54	-48.05	≤ -27	PASS
	Ant2	5745	30~5650	5617.4	-42.35	≤ -27	PASS
			5925~40000	5926.14	-47.23	≤ -27	PASS
	Ant1	5785	30~5650	5649.25	-44.97	≤ -27	PASS
			5925~40000	5927.27	-45.23	≤ -27	PASS
	Ant2	5785	30~5650	5648.13	-42.66	≤ -27	PASS
			5925~40000	5928.41	-44.39	≤ -27	PASS
	Ant1	5825	30~5650	5649.06	-47.72	≤ -27	PASS
			5925~40000	5946.58	-42.28	≤ -27	PASS
	Ant2	5825	30~5650	5633.7	-49.13	≤ -27	PASS
			5925~40000	5939.77	-43.17	≤ -27	PASS
11N40MIMO	Ant1	5190	30~5140	5043.93	-49.48	≤ -27	PASS
			5360~40000	10389.73	-47.77	≤ -27	PASS
	Ant2	5190	30~5140	5127.74	-38.95	≤ -27	PASS
			5360~40000	5361.15	-45.76	≤ -27	PASS
	Ant1	5230	30~5140	5137.96	-52.62	≤ -27	PASS
			5360~40000	10454.39	-45.02	≤ -27	PASS
	Ant2	5230	30~5140	5128.93	-43.53	≤ -27	PASS
			5360~40000	5360	-42.49	≤ -27	PASS
	Ant1	5270	30~5140	4626.27	-52.33	≤ -27	PASS
			5360~40000	5370.39	-45.52	≤ -27	PASS
	Ant2	5270	30~5140	5134.89	-48.16	≤ -27	PASS

	Ant1	5310	5360~40000	5375.01	-42.95	≤ -27	PASS
			30~5140	4631.04	-52.52	≤ -27	PASS
			5360~40000	5364.62	-45.27	≤ -27	PASS
	Ant2	5310	30~5140	5136.42	-48.47	≤ -27	PASS
			5360~40000	5363.46	-41.56	≤ -27	PASS
	Ant1	5510	30~5460	5459.82	-41.89	≤ -27	PASS
			5735~40000	39015.45	-49.86	≤ -27	PASS
	Ant2	5510	30~5460	5440.45	-39.94	≤ -27	PASS
			5735~40000	38101.72	-47.91	≤ -27	PASS
	Ant1	5550	30~5460	5454.03	-40.67	≤ -27	PASS
			5735~40000	5735	-1000	≤ -27	PASS
	Ant2	5550	30~5460	5450.23	-43.33	≤ -27	PASS
			5735~40000	38573.43	-48.88	≤ -27	PASS
	Ant1	5670	30~5460	5440.45	-50.62	≤ -27	PASS
			5735~40000	5735	-45.52	≤ -27	PASS
	Ant2	5670	30~5460	5042.07	-49.46	≤ -27	PASS
			5735~40000	5736.14	-40.32	≤ -27	PASS
	Ant1	5755	30~5650	5650	-44.18	≤ -27	PASS
			5925~40000	5936.36	-48.09	≤ -27	PASS
	Ant2	5755	30~5650	5643.26	-42.47	≤ -27	PASS
			5925~40000	5952.26	-45.96	≤ -27	PASS
	Ant1	5795	30~5650	5648.88	-44.11	≤ -27	PASS
			5925~40000	5937.49	-44.92	≤ -27	PASS
	Ant2	5795	30~5650	5645.69	-44.6	≤ -27	PASS
			5925~40000	5962.48	-43.14	≤ -27	PASS
11AC20MIMO	Ant1	5180	30~5140	5139.83	-43.07	≤ -27	PASS
			5360~40000	38109.81	-49.17	≤ -27	PASS
	Ant2	5180	30~5140	5105.25	-40.75	≤ -27	PASS
			5360~40000	5360	-46.13	≤ -27	PASS
	Ant1	5200	30~5140	5137.96	-45.05	≤ -27	PASS
			5360~40000	10401.27	-46.21	≤ -27	PASS
	Ant2	5200	30~5140	5130.63	-41.54	≤ -27	PASS
			5360~40000	5366.93	-44.93	≤ -27	PASS
	Ant1	5240	30~5140	5130.8	-46.69	≤ -27	PASS
			5360~40000	5366.93	-45.12	≤ -27	PASS
	Ant2	5240	30~5140	5135.74	-44.73	≤ -27	PASS
			5360~40000	5381.94	-44.46	≤ -27	PASS

	Ant1	5260	30~5140	5137.96	-47.64	≤ -27	PASS
			5360~40000	5366.93	-42.78	≤ -27	PASS
	Ant2	5260	30~5140	5137.27	-47.61	≤ -27	PASS
			5360~40000	5366.93	-43.72	≤ -27	PASS
	Ant1	5280	30~5140	5132.16	-50.18	≤ -27	PASS
			5360~40000	5365.77	-43.21	≤ -27	PASS
	Ant2	5280	30~5140	5129.78	-44.86	≤ -27	PASS
			5360~40000	5371.55	-37	≤ -27	PASS
	Ant1	5320	30~5140	5136.76	-52.15	≤ -27	PASS
			5360~40000	5368.08	-43.57	≤ -27	PASS
	Ant2	5320	30~5140	5104.74	-53.58	≤ -27	PASS
			5360~40000	5384.25	-39.32	≤ -27	PASS
	Ant1	5500	30~5460	5450.77	-41.27	≤ -27	PASS
			5735~40000	38874.97	-48.03	≤ -27	PASS
	Ant2	5500	30~5460	5432.67	-41.23	≤ -27	PASS
			5735~40000	38919.51	-48.04	≤ -27	PASS
	Ant1	5580	30~5460	5458.55	-43.57	≤ -27	PASS
			5735~40000	38888.67	-48.89	≤ -27	PASS
	Ant2	5580	30~5460	5442.08	-43.63	≤ -27	PASS
			5735~40000	11153.44	-38.31	≤ -27	PASS
	Ant1	5700	30~5460	5055.1	-46.88	≤ -27	PASS
			5735~40000	5741.85	-42.47	≤ -27	PASS
	Ant2	5700	30~5460	5052.93	-44.68	≤ -27	PASS
			5735~40000	5735	-40.26	≤ -27	PASS
	Ant1	5745	30~5650	5647.56	-42.83	≤ -27	PASS
			5925~40000	38932.32	-48.87	≤ -27	PASS
	Ant2	5745	30~5650	5647.19	-42.23	≤ -27	PASS
			5925~40000	38973.21	-48.68	≤ -27	PASS
	Ant1	5785	30~5650	5644.38	-45.43	≤ -27	PASS
			5925~40000	5932.95	-46.94	≤ -27	PASS
	Ant2	5785	30~5650	5642.69	-44.33	≤ -27	PASS
			5925~40000	5931.82	-44.77	≤ -27	PASS
	Ant1	5825	30~5650	5637.82	-45.94	≤ -27	PASS
			5925~40000	5934.09	-43.68	≤ -27	PASS
	Ant2	5825	30~5650	5646.25	-46.51	≤ -27	PASS
			5925~40000	5926.14	-42.52	≤ -27	PASS
11AC40MIMO	Ant1	5190	30~5140	5124.84	-44.96	≤ -27	PASS

		5190	5360~40000	5365.77	-48.31	≤ -27	PASS
			30~5140	5138.47	-39.52	≤ -27	PASS
			5360~40000	5363.46	-47.64	≤ -27	PASS
	Ant1	5230	30~5140	5121.26	-45.06	≤ -27	PASS
			5360~40000	5363.46	-44.09	≤ -27	PASS
	Ant2	5230	30~5140	5127.91	-41.79	≤ -27	PASS
			5360~40000	5360	-41.05	≤ -27	PASS
	Ant1	5270	30~5140	5138.64	-50.12	≤ -27	PASS
			5360~40000	5377.32	-45.18	≤ -27	PASS
	Ant2	5270	30~5140	5127.05	-49.49	≤ -27	PASS
			5360~40000	5363.46	-43.78	≤ -27	PASS
	Ant1	5310	30~5140	5123.65	-54.34	≤ -27	PASS
			5360~40000	5361.15	-44.73	≤ -27	PASS
	Ant2	5310	30~5140	5125.35	-52.22	≤ -27	PASS
			5360~40000	5362.31	-41.21	≤ -27	PASS
	Ant1	5510	30~5460	5450.95	-41.73	≤ -27	PASS
			5735~40000	38819	-48.74	≤ -27	PASS
	Ant2	5510	30~5460	5454.39	-43.55	≤ -27	PASS
			5735~40000	37302.2	-48.47	≤ -27	PASS
	Ant1	5550	30~5460	5451.49	-42.23	≤ -27	PASS
			5735~40000	38772.17	-48.64	≤ -27	PASS
	Ant2	5550	30~5460	5436.65	-45.27	≤ -27	PASS
			5735~40000	11100.9	-48.93	≤ -27	PASS
	Ant1	5670	30~5460	5038.09	-49.54	≤ -27	PASS
			5735~40000	5737.28	-46.79	≤ -27	PASS
	Ant2	5670	30~5460	5027.59	-50.85	≤ -27	PASS
			5735~40000	5736.14	-43.17	≤ -27	PASS
	Ant1	5755	30~5650	5618.72	-45.31	≤ -27	PASS
			5925~40000	38870.98	-48.87	≤ -27	PASS
	Ant2	5755	30~5650	5642.69	-45.01	≤ -27	PASS
			5925~40000	38049.77	-48.81	≤ -27	PASS
	Ant1	5795	30~5650	5643.44	-46.44	≤ -27	PASS
			5925~40000	5927.27	-47.61	≤ -27	PASS
	Ant2	5795	30~5650	5645.5	-44.93	≤ -27	PASS
			5925~40000	5939.77	-45.8	≤ -27	PASS
11AC80MIMO	Ant1	5210	30~5140	5112.58	-46.32	≤ -27	PASS
			5360~40000	38067.09	-49.48	≤ -27	PASS

	Ant2	5210	30~5140	5128.59	-40.12	≤ -27	PASS
			5360~40000	38067.09	-49.34	≤ -27	PASS
	Ant1	5290	30~5140	3781.42	-54.77	≤ -27	PASS
			5360~40000	5365.77	-48.88	≤ -27	PASS
	Ant2	5290	30~5140	5131.14	-53.96	≤ -27	PASS
			5360~40000	5368.08	-40.48	≤ -27	PASS
	Ant1	5530	30~5460	5453.85	-42.2	≤ -27	PASS
			5735~40000	38110.86	-49.33	≤ -27	PASS
	Ant2	5530	30~5460	5442.81	-38.51	≤ -27	PASS
			5735~40000	5752.13	-45.17	≤ -27	PASS
	Ant1	5610	30~5460	5449.32	-43.66	≤ -27	PASS
			5735~40000	38808.72	-49.56	≤ -27	PASS
	Ant2	5610	30~5460	5445.34	-48.04	≤ -27	PASS
			5735~40000	5739.57	-42.68	≤ -27	PASS
	Ant1	5775	30~5650	5644.38	-47.25	≤ -27	PASS
			5925~40000	38930.05	-48.85	≤ -27	PASS
	Ant2	5775	30~5650	5640.45	-45.91	≤ -27	PASS
			5925~40000	38834.64	-48.62	≤ -27	PASS
11AX20MIMO	Ant1	5180	30~5140	5119.39	-47.6	≤ -27	PASS
			5360~40000	38106.35	-48.11	≤ -27	PASS
	Ant2	5180	30~5140	5099.46	-41.27	≤ -27	PASS
			5360~40000	5751.43	-40.83	≤ -27	PASS
	Ant1	5200	30~5140	5124.84	-52.27	≤ -27	PASS
			5360~40000	10394.35	-48.73	≤ -27	PASS
	Ant2	5200	30~5140	5129.44	-48.13	≤ -27	PASS
			5360~40000	38813	-49.45	≤ -27	PASS
	Ant1	5240	30~5140	5121.09	-52.81	≤ -27	PASS
			5360~40000	10477.48	-47.96	≤ -27	PASS
	Ant2	5240	30~5140	5133.53	-49.57	≤ -27	PASS
			5360~40000	5362.31	-49.54	≤ -27	PASS
	Ant1	5260	30~5140	5129.78	-54.08	≤ -27	PASS
			5360~40000	5361.15	-48.54	≤ -27	PASS
	Ant2	5260	30~5140	5139.32	-53.65	≤ -27	PASS
			5360~40000	38831.48	-48.88	≤ -27	PASS
	Ant1	5280	30~5140	5120.75	-54.03	≤ -27	PASS
			5360~40000	5364.62	-48.93	≤ -27	PASS
	Ant2	5280	30~5140	5126.37	-53.46	≤ -27	PASS

		5320	5360~40000	5377.32	-46	≤ -27	PASS
			30~5140	4676.35	-54.92	≤ -27	PASS
			5360~40000	38913.46	-49.41	≤ -27	PASS
	Ant2	5320	30~5140	4674.31	-51.14	≤ -27	PASS
			5360~40000	10649.53	-44.37	≤ -27	PASS
	Ant1	5500	30~5460	5459.46	-48.07	≤ -27	PASS
			5735~40000	37977.22	-49.03	≤ -27	PASS
	Ant2	5500	30~5460	5444.07	-46.94	≤ -27	PASS
			5735~40000	38591.71	-49.46	≤ -27	PASS
	Ant1	5580	30~5460	5452.04	-50.89	≤ -27	PASS
			5735~40000	38969.77	-49.24	≤ -27	PASS
	Ant2	5580	30~5460	5439.91	-51.12	≤ -27	PASS
			5735~40000	11160.29	-39.97	≤ -27	PASS
	Ant1	5700	30~5460	5056.91	-44.99	≤ -27	PASS
			5735~40000	39014.31	-49.28	≤ -27	PASS
	Ant2	5700	30~5460	5061.98	-42.54	≤ -27	PASS
			5735~40000	5737.28	-47.64	≤ -27	PASS
	Ant1	5745	30~5650	5105.8	-46.09	≤ -27	PASS
			5925~40000	38864.17	-49.97	≤ -27	PASS
	Ant2	5745	30~5650	5094.18	-47.03	≤ -27	PASS
			5925~40000	38146.32	-49.38	≤ -27	PASS
	Ant1	5785	30~5650	5139.52	-49.15	≤ -27	PASS
			5925~40000	37062.74	-49.5	≤ -27	PASS
	Ant2	5785	30~5650	5649.63	-50.03	≤ -27	PASS
			5925~40000	38942.54	-49.16	≤ -27	PASS
	Ant1	5825	30~5650	5638.57	-52.49	≤ -27	PASS
			5925~40000	38867.57	-49.14	≤ -27	PASS
	Ant2	5825	30~5650	5176.42	-54.04	≤ -27	PASS
			5925~40000	38920.96	-49.1	≤ -27	PASS
11AX40MIMO	Ant1	5190	30~5140	1938.93	-44.07	≤ -27	PASS
			5360~40000	38107.5	-49.88	≤ -27	PASS
	Ant2	5190	30~5140	5139.15	-42.1	≤ -27	PASS
			5360~40000	5361.15	-48.18	≤ -27	PASS
	Ant1	5230	30~5140	5115.3	-47.34	≤ -27	PASS
			5360~40000	5369.24	-48.22	≤ -27	PASS
	Ant2	5230	30~5140	5139.66	-46.02	≤ -27	PASS
			5360~40000	5362.31	-45.83	≤ -27	PASS

	Ant1	5270	30~5140	5125.35	-51.08	≤ -27	PASS
			5360~40000	5360	-46	≤ -27	PASS
	Ant2	5270	30~5140	5122.12	-48.94	≤ -27	PASS
			5360~40000	5369.24	-44.34	≤ -27	PASS
	Ant1	5310	30~5140	726.15	-53.49	≤ -27	PASS
			5360~40000	5400.41	-46.18	≤ -27	PASS
	Ant2	5310	30~5140	5113.77	-51.86	≤ -27	PASS
			5360~40000	5375.01	-39.96	≤ -27	PASS
	Ant1	5510	30~5460	5448.42	-42.79	≤ -27	PASS
			5735~40000	38094.87	-48.97	≤ -27	PASS
	Ant2	5510	30~5460	5457.29	-42.27	≤ -27	PASS
			5735~40000	38059.46	-48.73	≤ -27	PASS
	Ant1	5550	30~5460	5409.32	-43.7	≤ -27	PASS
			5735~40000	38504.9	-49.07	≤ -27	PASS
	Ant2	5550	30~5460	5449.14	-46.33	≤ -27	PASS
			5735~40000	38957.2	-48.67	≤ -27	PASS
	Ant1	5670	30~5460	5025.96	-48.42	≤ -27	PASS
			5735~40000	5740.71	-45.08	≤ -27	PASS
	Ant2	5670	30~5460	5026.32	-47.04	≤ -27	PASS
			5735~40000	5736.14	-42.51	≤ -27	PASS
	Ant1	5755	30~5650	5646.82	-43.48	≤ -27	PASS
			5925~40000	38809.65	-48.46	≤ -27	PASS
	Ant2	5755	30~5650	5641.01	-42.04	≤ -27	PASS
			5925~40000	5934.09	-47.2	≤ -27	PASS
	Ant1	5795	30~5650	5639.51	-46.73	≤ -27	PASS
			5925~40000	5935.22	-47.1	≤ -27	PASS
	Ant2	5795	30~5650	5646.25	-46.24	≤ -27	PASS
			5925~40000	5930.68	-45.04	≤ -27	PASS
11AX80MIMO	Ant1	5210	30~5140	5134.55	-46.43	≤ -27	PASS
			5360~40000	38592.46	-49.23	≤ -27	PASS
	Ant2	5210	30~5140	5133.53	-41.06	≤ -27	PASS
			5360~40000	5371.55	-47.42	≤ -27	PASS
	Ant1	5290	30~5140	5133.02	-55.17	≤ -27	PASS
			5360~40000	5372.7	-47.32	≤ -27	PASS
	Ant2	5290	30~5140	5133.02	-52.35	≤ -27	PASS
			5360~40000	5368.08	-42.12	≤ -27	PASS
	Ant1	5530	30~5460	5449.86	-41.71	≤ -27	PASS

	Ant2	5530	5735~40000	35897.34	-47.72	≤ -27	PASS
			30~5460	5456.56	-39.94	≤ -27	PASS
			5735~40000	38840.7	-48.71	≤ -27	PASS
	Ant1	5610	30~5460	5452.22	-46.45	≤ -27	PASS
			5735~40000	38487.77	-49.16	≤ -27	PASS
	Ant2	5610	30~5460	5441.54	-48.45	≤ -27	PASS
			5735~40000	5737.28	-46.32	≤ -27	PASS
	Ant1	5775	30~5650	5649.63	-44.8	≤ -27	PASS
			5925~40000	5934.09	-48.08	≤ -27	PASS
	Ant2	5775	30~5650	5634.83	-46.26	≤ -27	PASS
			5925~40000	39002.74	-49.2	≤ -27	PASS

Test Graphs see Appendix A

The radiated spurious emission test data see Appendix B.

7.9. Radiated Restricted Band Edge Measurement

7.9.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41	--	--	--

For RSS-Gen Section 8.10 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 ~ 0.110	240 ~ 285	9.0 ~ 9.2
2.1735 ~ 2.1905	322 ~ 335.4	9.3 ~ 9.5
3.020 ~ 3.026	399.9 ~ 410	10.6 ~ 12.7
4.125 ~ 4.128	608 ~ 614	13.25 ~ 13.4
4.17725 ~ 4.17775	960 ~ 1427	14.47 ~ 14.5
4.20725 ~ 4.20775	1435 ~ 1626.5	15.35 ~ 16.2
5.677 ~ 5.683	1645.5 ~ 1646.5	17.7 ~ 21.4
6.215 ~ 6.218	1660 ~ 1710	22.01 ~ 23.12
6.26775 ~ 6.26825	1718.8 ~1722.2	23.6 ~ 24.0
6.31175 ~ 6.31225	2200 ~ 2300	31.2 ~ 31.8
8.291 ~ 8.294	2310 ~ 2390	36.43 ~ 36.5
8.362 ~ 8.366	2655 ~ 2900	Above 38.6
8.37625 ~ 8.38675	3260 ~ 3267	--
8.41425 ~ 8.41475	3332 ~ 3339	
12.29 ~ 12.293	334.5 ~ 3358	
12.51975 ~ 12.52025	3500 ~ 4400	
12.57675 ~ 12.57725	4500 ~ 5150	
13.36 ~13.41	5350 ~ 5460	
16.42 ~ 16.423	7250 ~ 7750	
16.69475 ~ 16.69525	8025 ~ 8500	
16.80425 ~ 16.80475	--	
25.5 ~ 25.67		
37.5 ~ 38.25		
73 ~ 74.6		
74.8 ~ 75.2		
108 ~ 138		
156.52475 ~ 156.525225		
156.7 ~ 156.9		

Note: *Certain frequency bands listed in Table 6 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the

requirements that apply to licence-exempt radio apparatus.

For 15.407(b) requirement:

For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For FCC transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For IC transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

7.9.2. Test Result

Band edge measurements the test result:

Test Mode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-40.42	≤ -27	PASS
	Ant2	Low	5180	-40.02	≤ -27	PASS
	Ant1	High	5320	-41.08	≤ -27	PASS
	Ant2	High	5320	-40.56	≤ -27	PASS
	Ant1	Low	5500	-39.72	≤ -27	PASS
	Ant2	Low	5500	-40.77	≤ -27	PASS
	Ant1	High	5700	-41.7	≤ -27	PASS
	Ant2	High	5700	-41.89	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-41.33	≤ -27	PASS
	Ant2	Low	5180	-39.35	≤ -27	PASS
	Ant1	High	5320	-42.26	≤ -27	PASS
	Ant2	High	5320	-42.16	≤ -27	PASS
	Ant1	Low	5500	-40.93	≤ -27	PASS
	Ant2	Low	5500	-38.52	≤ -27	PASS
	Ant1	High	5700	-42.23	≤ -27	PASS
	Ant2	High	5700	-36.67	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-41.47	≤ -27	PASS
	Ant2	Low	5190	-38.45	≤ -27	PASS
	Ant1	High	5310	-43.25	≤ -27	PASS
	Ant2	High	5310	-41.94	≤ -27	PASS
	Ant1	Low	5510	-42.59	≤ -27	PASS
	Ant2	Low	5510	-40.86	≤ -27	PASS
	Ant1	High	5670	-42.39	≤ -27	PASS
	Ant2	High	5670	-40.31	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-41.7	≤ -27	PASS
	Ant2	Low	5180	-40.03	≤ -27	PASS
	Ant1	High	5320	-43.11	≤ -27	PASS
	Ant2	High	5320	-41.42	≤ -27	PASS
	Ant1	Low	5500	-42.21	≤ -27	PASS
	Ant2	Low	5500	-41.84	≤ -27	PASS
	Ant1	High	5700	-41.89	≤ -27	PASS
	Ant2	High	5700	-40.84	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-40.75	≤ -27	PASS

	Ant2	Low	5190	-39.8	≤ -27	PASS
	Ant1	High	5310	-43.24	≤ -27	PASS
	Ant2	High	5310	-41.08	≤ -27	PASS
	Ant1	Low	5510	-41.52	≤ -27	PASS
	Ant2	Low	5510	-41.28	≤ -27	PASS
	Ant1	High	5670	-42.27	≤ -27	PASS
	Ant2	High	5670	-41.6	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-40.75	≤ -27	PASS
	Ant2	Low	5210	-40.38	≤ -27	PASS
	Ant1	High	5290	-43.99	≤ -27	PASS
	Ant2	High	5290	-41.56	≤ -27	PASS
	Ant1	Low	5530	-42.98	≤ -27	PASS
	Ant2	Low	5530	-41.41	≤ -27	PASS
	Ant1	High	5610	-28.07	≤ -27	PASS
	Ant2	High	5610	-32.66	≤ -27	PASS
11AX20MIMO	Ant1	Low	5180	-41	≤ -27	PASS
	Ant2	Low	5180	-40.84	≤ -27	PASS
	Ant1	High	5320	-44.12	≤ -27	PASS
	Ant2	High	5320	-43.69	≤ -27	PASS
	Ant1	Low	5500	-43.47	≤ -27	PASS
	Ant2	Low	5500	-43.43	≤ -27	PASS
	Ant1	High	5700	-43.36	≤ -27	PASS
	Ant2	High	5700	-42.98	≤ -27	PASS
11AX40MIMO	Ant1	Low	5190	-41.91	≤ -27	PASS
	Ant2	Low	5190	-40.9	≤ -27	PASS
	Ant1	High	5310	-43.78	≤ -27	PASS
	Ant2	High	5310	-41.72	≤ -27	PASS
	Ant1	Low	5510	-42.26	≤ -27	PASS
	Ant2	Low	5510	-42.67	≤ -27	PASS
	Ant1	High	5670	-42.93	≤ -27	PASS
	Ant2	High	5670	-42.45	≤ -27	PASS
11AX80MIMO	Ant1	Low	5210	-40.97	≤ -27	PASS
	Ant2	Low	5210	-41.12	≤ -27	PASS
	Ant1	High	5290	-44.19	≤ -27	PASS
	Ant2	High	5290	-40.55	≤ -27	PASS
	Ant1	Low	5530	-41.88	≤ -27	PASS
	Ant2	Low	5530	-42.05	≤ -27	PASS

	Ant1	High	5610	-42.63	≤-27	PASS
	Ant2	High	5610	-41.96	≤-27	PASS

Test Mode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.25	≤4.79	PASS
				5700~5720	-39.93	≤12.99	PASS
				5720~5725	-36.31	≤25.26	PASS
				5760~5650	-42.76	≤-27	PASS
	Ant2	Low	5745	5650~5700	-40.8	≤1.13	PASS
				5700~5720	-39.32	≤15.37	PASS
				5720~5725	-36.77	≤26.83	PASS
				5760~5650	-43.28	≤-27	PASS
	Ant1	High	5825	5850~5855	-39.76	≤20.41	PASS
				5855~5875	-39	≤10.40	PASS
				5875~5925	-40.05	≤-20.46	PASS
				5925~5935	-40.93	≤-27	PASS
	Ant2	High	5825	5850~5855	-37.93	≤21.95	PASS
				5855~5875	-39.25	≤11.38	PASS
				5875~5925	-40.25	≤-21.66	PASS
				5925~5935	-41.66	≤-27	PASS
11N20MI MO	Ant1	Low	5745	5650~5700	-42.06	≤-6.36	PASS
				5700~5720	-40.69	≤15.37	PASS
				5720~5725	-39.69	≤26.57	PASS
				5760~5650	-43.62	≤-27	PASS
	Ant2	Low	5745	5650~5700	-40.36	≤1.81	PASS
				5700~5720	-37.89	≤14.89	PASS
				5720~5725	-29.64	≤26.83	PASS
				5760~5650	-42.14	≤-27	PASS
	Ant1	High	5825	5850~5855	-41.46	≤21.03	PASS
				5855~5875	-40.97	≤12.97	PASS
				5875~5925	-41.16	≤5.91	PASS
				5925~5935	-42.09	≤-27	PASS
	Ant2	High	5825	5850~5855	-39.89	≤16.72	PASS
				5855~5875	-40.82	≤13.27	PASS
				5875~5925	-40.15	≤4.21	PASS
				5925~5935	-42.76	≤-27	PASS

11N40MI MO	Ant1	Low	5755	5650~5700	-41.37	≤ -4.43	PASS
				5700~5720	-41.03	≤ 15.05	PASS
				5720~5725	-39.7	≤ 24.36	PASS
				5780~5650	-42.99	≤ -27	PASS
	Ant2	Low	5755	5650~5700	-40.11	≤ 9.06	PASS
				5700~5720	-30.79	≤ 14.86	PASS
				5720~5725	-29.88	≤ 25.28	PASS
				5780~5650	-42.57	≤ -27	PASS
	Ant1	High	5795	5850~5855	-41.95	≤ 23.93	PASS
				5855~5875	-41.32	≤ 15.54	PASS
				5875~5925	-41.78	≤ -26.80	PASS
				5925~5935	-42.17	≤ -27	PASS
11AC20MI MO	Ant1	Low	5745	5650~5700	-41.89	≤ -8.83	PASS
				5700~5720	-42.76	≤ 11.89	PASS
				5720~5725	-40.43	≤ 26.30	PASS
				5760~5650	-42.3	≤ -27	PASS
	Ant2	Low	5745	5650~5700	-40.91	≤ -13.34	PASS
				5700~5720	-39.73	≤ 15.50	PASS
				5720~5725	-37.09	≤ 25.78	PASS
				5760~5650	-43.47	≤ -27	PASS
	Ant1	High	5825	5850~5855	-42.29	≤ 24.41	PASS
				5855~5875	-41.81	≤ 11.99	PASS
				5875~5925	-41.3	≤ -0.88	PASS
				5925~5935	-42.61	≤ -27	PASS
	Ant2	High	5825	5850~5855	-40.72	≤ 23.80	PASS
				5855~5875	-40.51	≤ 11.42	PASS
				5875~5925	-40.77	≤ 3.71	PASS
				5925~5935	-42.34	≤ -27	PASS
11AC40MI MO	Ant1	Low	5755	5650~5700	-42.28	≤ -17.11	PASS
				5700~5720	-42.46	≤ 10.40	PASS
				5720~5725	-41.75	≤ 24.66	PASS
				5780~5650	-41.68	≤ -27	PASS
	Ant2	Low	5755	5650~5700	-40.27	≤ 6.06	PASS

				5700~5720	-34.23	≤ 14.82	PASS
				5720~5725	-32.02	≤ 22.51	PASS
				5780~5650	-43.22	≤ -27	PASS
	Ant1	High	5795	5850~5855	-42.68	≤ 19.04	PASS
				5855~5875	-42.05	≤ 11.19	PASS
				5875~5925	-41.54	≤ 2.50	PASS
				5925~5935	-42.55	≤ -27	PASS
	Ant2	High	5795	5850~5855	-41.39	≤ 21.30	PASS
				5855~5875	-41.35	≤ 13.27	PASS
				5875~5925	-42.03	≤ -12.88	PASS
				5925~5935	-42.63	≤ -27	PASS
11AC80MI MO	Ant1	Low	5775	5650~5700	-43.33	≤ -7.65	PASS
				5700~5720	-40.9	≤ 11.01	PASS
				5720~5725	-42.8	≤ 22.01	PASS
				5800~5650	-43.5	≤ -27	PASS
	Ant1	High	5775	5850~5855	-42.27	≤ 25.50	PASS
				5855~5875	-42.04	≤ 12.25	PASS
				5875~5925	-41.89	≤ -23.94	PASS
				5925~5935	-42.45	≤ -27	PASS
	Ant2	Low	5775	5650~5700	-37.59	≤ 7.84	PASS
				5700~5720	-33.37	≤ 14.35	PASS
				5720~5725	-32.25	≤ 18.83	PASS
				5800~5650	-43.39	≤ -27	PASS
		High	5775	5850~5855	-38.95	≤ 19.17	PASS
				5855~5875	-39.74	≤ 10.70	PASS
				5875~5925	-41.68	≤ -26.13	PASS
				5925~5935	-43.59	≤ -27	PASS
11AX20MI MO	Ant1	Low	5745	5650~5700	-43.36	≤ -11.64	PASS
				5700~5720	-43.12	≤ 12.15	PASS
				5720~5725	-43.91	≤ 16.87	PASS
				5760~5650	-43.69	≤ -27	PASS
	Ant2	Low	5745	5650~5700	-43.43	≤ 4.53	PASS
				5700~5720	-42.42	≤ 15.53	PASS
				5720~5725	-37.47	≤ 25.78	PASS
				5760~5650	-43.99	≤ -27	PASS
	Ant1	High	5825	5850~5855	-43.53	≤ 26.87	PASS
				5855~5875	-43.28	≤ 10.97	PASS

	Ant2	High	5825	5875~5925	-42.39	≤ -4.58	PASS
				5925~5935	-42.54	≤ -27	PASS
				5850~5855	-42.58	≤ 16.10	PASS
				5855~5875	-43.50	≤ 15.05	PASS
				5875~5925	-42.21	≤ -10.57	PASS
				5925~5935	-43.51	≤ -27	PASS
11AX40MI MO	Ant1	Low	5755	5650~5700	-42.52	≤ -25.71	PASS
				5700~5720	-42.33	≤ 11.80	PASS
				5720~5725	-42.48	≤ 21.28	PASS
				5780~5650	-43.52	≤ -27	PASS
	Ant2	Low	5755	5650~5700	-40.96	≤ 8.56	PASS
				5700~5720	-34.31	≤ 15.54	PASS
				5720~5725	-33.42	≤ 23.12	PASS
				5780~5650	-41.76	≤ -27	PASS
	Ant1	High	5795	5850~5855	-43.01	≤ 25.44	PASS
				5855~5875	-41.86	≤ 14.98	PASS
				5875~5925	-42.27	≤ 7.51	PASS
				5925~5935	-43.07	≤ -27	PASS
	Ant2	High	5795	5850~5855	-42.00	≤ 24.69	PASS
				5855~5875	-41.28	≤ 15.49	PASS
				5875~5925	-42.26	≤ -23.02	PASS
				5925~5935	-41.96	≤ -27	PASS
11AX80MI MO	Ant1	Low	5775	5650~5700	-40.86	≤ -20.15	PASS
				5700~5720	-41.36	≤ 13.96	PASS
				5720~5725	-41.95	≤ 20.95	PASS
				5800~5650	-43.72	≤ -27	PASS
		High	5775	5850~5855	-41.89	≤ 21.70	PASS
				5855~5875	-42.35	≤ 12.30	PASS
				5875~5925	-42.17	≤ -17.10	PASS
				5925~5935	-43.41	≤ -27	PASS
	Ant2	Low	5775	5650~5700	-41.20	≤ 7.72	PASS
				5700~5720	-38.26	≤ 15.48	PASS
				5720~5725	-36.03	≤ 25.89	PASS
				5800~5650	-44.37	≤ -27	PASS
		High	5775	5850~5855	-41.50	≤ 18.75	PASS
				5855~5875	-41.08	≤ 10.18	PASS
				5875~5925	-41.46	≤ -21.48	PASS

				5925~5935	-42.99	≤-27	PASS
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Emissions in restricted bands the test result:

Test Mode	Antenna	ChName	Channel	Detector	Freq [MHz]	EIRP [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-54.06	≤-41.20	PASS
				AV	5149.600	-43.30	≤-41.20	PASS
				AV	5150.000	-43.26	≤-41.20	PASS
				Peak	4500.000	-44.71	≤-21.20	PASS
				Peak	5126.500	-33.47	≤-21.20	PASS
				Peak	5150.000	-34.98	≤-21.20	PASS
	Ant2	Low	5180	AV	4500.000	-54.01	≤-41.20	PASS
				AV	5149.600	-43.21	≤-41.20	PASS
				AV	5150.000	-43.12	≤-41.20	PASS
				Peak	4500.000	-46.10	≤-21.20	PASS
				Peak	5131.400	-34.45	≤-21.20	PASS
				Peak	5150.000	-34.12	≤-21.20	PASS
	Ant1	High	5320	AV	5350.000	-41.90	≤-41.20	PASS
				AV	5350.080	-41.90	≤-41.20	PASS
				AV	5460.000	-49.37	≤-41.20	PASS
				Peak	5350.000	-33.30	≤-21.20	PASS
				Peak	5351.360	-31.59	≤-21.20	PASS
				Peak	5460.000	-42.09	≤-21.20	PASS
	Ant2	High	5320	AV	5350.000	-42.23	≤-41.20	PASS
				AV	5350.080	-42.23	≤-41.20	PASS
				AV	5460.000	-50.35	≤-41.20	PASS
				Peak	5350.000	-35.36	≤-21.20	PASS
				Peak	5353.120	-33.50	≤-21.20	PASS
				Peak	5460.000	-42.08	≤-21.20	PASS
	Ant1	Low	5500	AV	5350.000	-47.72	≤-41.20	PASS
				AV	5458.340	-42.70	≤-41.20	PASS
				AV	5460.000	-42.67	≤-41.20	PASS
				Peak	5350.000	-40.03	≤-21.20	PASS
				Peak	5431.250	-33.45	≤-21.20	PASS
				Peak	5460.000	-35.26	≤-21.20	PASS
	Ant2	Low	5500	AV	5350.000	-48.09	≤-41.20	PASS
				AV	5437.340	-43.61	≤-41.20	PASS

				AV	5460.000	-43.98	≤-41.20	PASS
				Peak	5350.000	-40.37	≤-21.20	PASS
				Peak	5447.840	-34.28	≤-21.20	PASS
				Peak	5460.000	-36.17	≤-21.20	PASS
	Ant1	Low	5745	Peak	5650.000	-38.47	≤-27.00	PASS
				Peak	5700.000	-33.97	≤10.00	PASS
				Peak	5720.000	-31.5	≤15.60	PASS
				Peak	5725.000	-23.01	≤27.00	PASS
	Ant2	Low	5745	Peak	5650.000	-38.64	≤-27.00	PASS
				Peak	5700.000	-34.73	≤10.00	PASS
				Peak	5720.000	-27.94	≤15.60	PASS
				Peak	5725.000	-19.22	≤27.00	PASS
	Ant1	High	5825	Peak	5850.000	-31.63	≤15.60	PASS
				Peak	5855.000	-32.75	≤27.00	PASS
				Peak	5875.000	-34.69	≤15.60	PASS
				Peak	5925.000	-37.19	≤10.00	PASS
	Ant2	High	5825	Peak	5850.000	-29.49	≤15.60	PASS
				Peak	5855.000	-32.19	≤27.00	PASS
				Peak	5875.000	-34.64	≤15.60	PASS
				Peak	5925.000	-37.00	≤10.00	PASS
11N20MI MO	Ant1	Low	5180	AV	4500.000	-54.10	≤-41.20	PASS
				AV	5149.600	-47.67	≤-41.20	PASS
				AV	5150.000	-47.59	≤-41.20	PASS
				Peak	4500.000	-46.58	≤-21.20	PASS
				Peak	5127.900	-38.13	≤-21.20	PASS
				Peak	5150.000	-39.54	≤-21.20	PASS
	Ant2	Low	5180	AV	4500.000	-53.97	≤-41.20	PASS
				AV	5149.600	-43.08	≤-41.20	PASS
				AV	5150.000	-42.94	≤-41.20	PASS
				Peak	4500.000	-45.70	≤-21.20	PASS
				Peak	5145.400	-27.15	≤-21.20	PASS
				Peak	5150.000	-29.24	≤-21.20	PASS
	Total	Low	5180	AV	4500.000	-51.02	≤-41.20	PASS
				AV	5149.600	-41.78	≤-41.20	PASS
				AV	5150.000	-41.66	≤-41.20	PASS
				Peak	4500.000	-43.11	≤-21.20	PASS
				Peak	5145.400	-26.82	≤-21.20	PASS

	Ant1	High	5320	Peak	5150.000	-28.85	≤ -21.20	PASS
				AV	5350.000	-50.37	≤ -41.20	PASS
				AV	5354.560	-50.27	≤ -41.20	PASS
				AV	5460.000	-53.48	≤ -41.20	PASS
				Peak	5350.000	-41.66	≤ -21.20	PASS
				Peak	5359.200	-40.58	≤ -21.20	PASS
				Peak	5460.000	-44.64	≤ -21.20	PASS
	Ant2	High	5320	AV	5350.000	-43.92	≤ -41.20	PASS
				AV	5350.080	-43.92	≤ -41.20	PASS
				AV	5460.000	-51.68	≤ -41.20	PASS
				Peak	5350.000	-36.49	≤ -21.20	PASS
				Peak	5353.120	-34.44	≤ -21.20	PASS
				Peak	5460.000	-44.26	≤ -21.20	PASS
	Total	High	5320	AV	5350.000	-43.03	≤ -41.20	PASS
				AV	5350.080	-43.01	≤ -41.20	PASS
				AV	5460.000	-49.48	≤ -41.20	PASS
				Peak	5350.000	-35.34	≤ -21.20	PASS
				Peak	5353.120	-33.49	≤ -21.20	PASS
				Peak	5460.000	-41.44	≤ -21.20	PASS
	Ant1	Low	5500	AV	5350.000	-49.41	≤ -41.20	PASS
				AV	5458.970	-44.71	≤ -41.20	PASS
				AV	5460.000	-44.81	≤ -41.20	PASS
				Peak	5350.000	-41.76	≤ -21.20	PASS
				Peak	5439.230	-35.86	≤ -21.20	PASS
				Peak	5460.000	-37.23	≤ -21.20	PASS
	Ant2	Low	5500	AV	5350.000	-48.88	≤ -41.20	PASS
				AV	5435.030	-44.45	≤ -41.20	PASS
				AV	5460.000	-44.73	≤ -41.20	PASS
				Peak	5350.000	-41.27	≤ -21.20	PASS
				Peak	5437.760	-34.86	≤ -21.20	PASS
				Peak	5460.000	-37.26	≤ -21.20	PASS
	Total	Low	5500	AV	5350.000	-46.13	≤ -41.20	PASS
				AV	5435.030	-41.57	≤ -41.20	PASS
				AV	5460.000	-41.76	≤ -41.20	PASS
				Peak	5350.000	-38.50	≤ -21.20	PASS
				Peak	5437.760	-32.32	≤ -21.20	PASS
				Peak	5460.000	-34.23	≤ -21.20	PASS

	Ant1	Low	5745	Peak	5650.000	-37.397	≤-27.00	PASS
				Peak	5700.000	-38.20	≤10.00	PASS
				Peak	5720.000	-31.56	≤15.60	PASS
				Peak	5725.000	-22.24	≤27.00	PASS
	Ant2	Low	5745	Peak	5650.000	-37.44	≤-27.00	PASS
				Peak	5700.000	-33.01	≤10.00	PASS
				Peak	5720.000	-27.19	≤15.60	PASS
				Peak	5725.000	-19.71	≤27.00	PASS
	Total	Low	5745	Peak	5650.000	-34.41	≤-27.00	PASS
				Peak	5700.000	-31.86	≤-27.00	PASS
				Peak	5720.000	-25.84	≤-27.00	PASS
				Peak	5725.000	-17.78	≤-27.00	PASS
	Ant1	High	5825	Peak	5850.000	-34.53	≤15.60	PASS
				Peak	5855.000	-35.38	≤27.00	PASS
				Peak	5875.000	-37.09	≤15.60	PASS
				Peak	5925.000	-38.38	≤10.00	PASS
	Ant2	High	5825	Peak	5850.000	-29.68	≤15.60	PASS
				Peak	5855.000	-32.23	≤27.00	PASS
				Peak	5875.000	-34.47	≤15.60	PASS
				Peak	5925.000	-39.25	≤10.00	PASS
	Total	High	5825	Peak	5850.000	-28.45	≤-27.00	PASS
				Peak	5855.000	-30.52	≤-27.00	PASS
				Peak	5875.000	-32.58	≤-27.00	PASS
				Peak	5925.000	-35.78	≤-27.00	PASS
11N40MI MO	Ant1	Low	5190	AV	4500.000	-54.07	≤-41.20	PASS
				AV	5097.100	-47.25	≤-41.20	PASS
				AV	5150.000	-50.84	≤-41.20	PASS
				Peak	4500.000	-45.15	≤-21.20	PASS
				Peak	5104.100	-40.32	≤-21.20	PASS
				Peak	5150.000	-43.69	≤-21.20	PASS
	Ant2	Low	5190	AV	4500.000	-54.08	≤-41.20	PASS
				AV	5149.600	-44.26	≤-41.20	PASS
				AV	5150.000	-44.23	≤-41.20	PASS
				Peak	4500.000	-45.49	≤-21.20	PASS
				Peak	5121.600	-35.33	≤-21.20	PASS
				Peak	5150.000	-36.76	≤-21.20	PASS
	Total	Low	5190	AV	4500.000	-51.06	≤-41.20	PASS

				AV	5149.600	-42.49	≤-41.20	PASS
				AV	5150.000	-43.37	≤-41.20	PASS
				Peak	4500.000	-42.31	≤-21.20	PASS
				Peak	5121.600	-34.13	≤-21.20	PASS
				Peak	5150.000	-35.96	≤-21.20	PASS
	Ant1	High	5310	AV	5350.000	-48.98	≤-41.20	PASS
				AV	5352.640	-48.97	≤-41.20	PASS
				AV	5460.000	-53.45	≤-41.20	PASS
				Peak	5350.000	-40.78	≤-21.20	PASS
				Peak	5371.200	-39.53	≤-21.20	PASS
				Peak	5460.000	-45.34	≤-21.20	PASS
	Ant2	High	5310	AV	5350.000	-45.47	≤-41.20	PASS
				AV	5350.080	-45.47	≤-41.20	PASS
				AV	5460.000	-52.90	≤-41.20	PASS
				Peak	5350.000	-36.27	≤-21.20	PASS
				Peak	5358.080	-35.18	≤-21.20	PASS
				Peak	5460.000	-44.42	≤-21.20	PASS
	Total	High	5310	AV	5350.000	-43.87	≤-41.20	PASS
				AV	5350.080	-43.87	≤-41.20	PASS
				AV	5460.000	-50.16	≤-41.20	PASS
				Peak	5350.000	-34.95	≤-21.20	PASS
				Peak	5358.080	-33.82	≤-21.20	PASS
				Peak	5460.000	-41.85	≤-21.20	PASS
	Ant1	Low	5510	AV	5350.000	-50.73	≤-41.20	PASS
				AV	5459.060	-46.47	≤-41.20	PASS
				AV	5460.000	-46.48	≤-41.20	PASS
				Peak	5350.000	-43.15	≤-21.20	PASS
				Peak	5445.420	-37.28	≤-21.20	PASS
				Peak	5460.000	-38.50	≤-21.20	PASS
	Ant2	Low	5510	AV	5350.000	-49.27	≤-41.20	PASS
				AV	5450.260	-44.22	≤-41.20	PASS
				AV	5460.000	-44.27	≤-41.20	PASS
				Peak	5350.000	-41.69	≤-21.20	PASS
				Peak	5443.880	-34.25	≤-21.20	PASS
				Peak	5460.000	-36.30	≤-21.20	PASS
	Total	Low	5510	AV	5350.000	-46.93	≤-41.20	PASS
				AV	5450.260	-42.19	≤-41.20	PASS

				AV	5460.000	-42.23	≤-41.20	PASS
				Peak	5350.000	-39.35	≤-21.20	PASS
				Peak	5443.880	-32.50	≤-21.20	PASS
				Peak	5460.000	-34.25	≤-21.20	PASS
	Ant1	Low	5755	Peak	5650.000	-39.35	≤-27.00	PASS
				Peak	5700.000	-36.65	≤10.00	PASS
				Peak	5720.000	-32.53	≤15.60	PASS
				Peak	5725.000	-31.10	≤27.00	PASS
	Ant2	Low	5755	Peak	5650.000	-37.63	≤-27.00	PASS
				Peak	5700.000	-32.79	≤10.00	PASS
				Peak	5720.000	-23.15	≤15.60	PASS
				Peak	5725.000	-21.6	≤27.00	PASS
	Total	Low	5755	Peak	5650.000	-35.40	≤-27.00	PASS
				Peak	5700.000	-31.29	≤-27.00	PASS
				Peak	5720.000	-22.68	≤-27.00	PASS
				Peak	5725.000	-21.14	≤-27.00	PASS
	Ant1	High	5795	Peak	5850.000	-36.49	≤15.60	PASS
				Peak	5855.000	-38.77	≤27.00	PASS
				Peak	5875.000	-39.35	≤15.60	PASS
				Peak	5925.000	-40.42	≤10.00	PASS
	Ant2	High	5795	Peak	5850.000	-32.47	≤15.60	PASS
				Peak	5855.000	-33.91	≤27.00	PASS
				Peak	5875.000	-37.02	≤15.60	PASS
				Peak	5925.000	-37.6	≤10.00	PASS
	Total	High	5795	Peak	5850.000	-31.02	≤-27.00	PASS
				Peak	5855.000	-32.68	≤-27.00	PASS
				Peak	5875.000	-35.02	≤-27.00	PASS
				Peak	5925.000	-35.77	≤-27.00	PASS
11AC20M IMO	Ant1	Low	5180	AV	4500.000	-54.10	≤-41.20	PASS
				AV	5149.600	-46.73	≤-41.20	PASS
				AV	5150.000	-46.66	≤-41.20	PASS
				Peak	4500.000	-45.95	≤-21.20	PASS
				Peak	5141.900	-37.15	≤-21.20	PASS
				Peak	5150.000	-37.32	≤-21.20	PASS
	Ant2	Low	5180	AV	4500.000	-54.05	≤-41.20	PASS
				AV	5149.600	-43.92	≤-41.20	PASS
				AV	5150.000	-43.87	≤-41.20	PASS

				Peak	4500.000	-46.58	≤ -21.20	PASS
				Peak	5123.700	-35.09	≤ -21.20	PASS
				Peak	5150.000	-36.87	≤ -21.20	PASS
	Total	Low	5180	AV	4500.000	-51.06	≤ -41.20	PASS
				AV	5149.600	-42.09	≤ -41.20	PASS
				AV	5150.000	-42.03	≤ -41.20	PASS
				Peak	4500.000	-43.24	≤ -21.20	PASS
				Peak	5123.700	-32.99	≤ -21.20	PASS
				Peak	5150.000	-34.08	≤ -21.20	PASS
	Ant1	High	5320	AV	5350.000	-47.28	≤ -41.20	PASS
				AV	5350.080	-47.28	≤ -41.20	PASS
				AV	5460.000	-52.19	≤ -41.20	PASS
				Peak	5350.000	-40.08	≤ -21.20	PASS
				Peak	5387.680	-37.69	≤ -21.20	PASS
				Peak	5460.000	-44.17	≤ -21.20	PASS
	Ant2	High	5320	AV	5350.000	-43.83	≤ -41.20	PASS
				AV	5350.080	-43.83	≤ -41.20	PASS
				AV	5460.000	-50.96	≤ -41.20	PASS
				Peak	5350.000	-36.77	≤ -21.20	PASS
				Peak	5350.560	-34.43	≤ -21.20	PASS
				Peak	5460.000	-43.79	≤ -21.20	PASS
	Total	High	5320	AV	5350.000	-42.21	≤ -41.20	PASS
				AV	5350.080	-42.21	≤ -41.20	PASS
				AV	5460.000	-48.52	≤ -41.20	PASS
				Peak	5350.000	-35.11	≤ -21.20	PASS
				Peak	5350.560	-32.75	≤ -21.20	PASS
				Peak	5460.000	-40.97	≤ -21.20	PASS
	Ant1	Low	5500	AV	5350.000	-49.73	≤ -41.20	PASS
				AV	5455.610	-45.49	≤ -41.20	PASS
				AV	5460.000	-45.47	≤ -41.20	PASS
				Peak	5350.000	-41.21	≤ -21.20	PASS
				Peak	5458.970	-34.54	≤ -21.20	PASS
				Peak	5460.000	-37.75	≤ -21.20	PASS
	Ant2	Low	5500	AV	5350.000	-49.38	≤ -41.20	PASS
				AV	5437.340	-45.28	≤ -41.20	PASS
				AV	5460.000	-45.62	≤ -41.20	PASS
				Peak	5350.000	-41.68	≤ -21.20	PASS

				Peak	5444.270	-35.24	≤-21.20	PASS
				Peak	5460.000	-38.60	≤-21.20	PASS
	Total	Low	5500	AV	5350.000	-46.54	≤-41.20	PASS
				AV	5437.340	-42.37	≤-41.20	PASS
				AV	5460.000	-42.53	≤-41.20	PASS
				Peak	5350.000	-38.43	≤-21.20	PASS
				Peak	5444.270	-31.87	≤-21.20	PASS
				Peak	5460.000	-35.14	≤-21.20	PASS
	Ant1	Low	5745	Peak	5650.000	-39.24	≤-27.00	PASS
				Peak	5700.000	-37.17	≤10.00	PASS
				Peak	5720.000	-35.61	≤15.60	PASS
				Peak	5725.000	-24.84	≤27.00	PASS
	Ant2	Low	5745	Peak	5650.000	-36.63	≤-27.00	PASS
				Peak	5700.000	-36.31	≤10.00	PASS
				Peak	5720.000	-31.6	≤15.60	PASS
				Peak	5725.000	-20.16	≤27.00	PASS
	Total	Low	5745	Peak	5650.000	-34.73	≤-27.00	PASS
				Peak	5700.000	-33.71	≤-27.00	PASS
				Peak	5720.000	-30.15	≤-27.00	PASS
				Peak	5725.000	-18.89	≤-27.00	PASS
	Ant1	High	5825	Peak	5850.000	-34.80	≤15.60	PASS
				Peak	5855.000	-35.61	≤27.00	PASS
				Peak	5875.000	-36.63	≤15.60	PASS
				Peak	5925.000	-39.86	≤10.00	PASS
	Ant2	High	5825	Peak	5850.000	-30.58	≤15.60	PASS
				Peak	5855.000	-35.31	≤27.00	PASS
				Peak	5875.000	-36.43	≤15.60	PASS
				Peak	5925.000	-38.52	≤10.00	PASS
	Total	High	5825	Peak	5850.000	-29.18	≤-27.00	PASS
				Peak	5855.000	-32.45	≤-27.00	PASS
				Peak	5875.000	-33.52	≤-27.00	PASS
				Peak	5925.000	-36.13	≤-27.00	PASS
11AC40M IMO	Ant1	Low	5190	AV	4500.000	-54.03	≤-41.20	PASS
				AV	5149.600	-47.15	≤-41.20	PASS
				AV	5150.000	-47.15	≤-41.20	PASS
				Peak	4500.000	-46.69	≤-21.20	PASS
				Peak	5143.300	-37.97	≤-21.20	PASS

	Ant2	Low	5190	Peak	5150.000	-38.19	≤ -21.20	PASS
				AV	4500.000	-54.00	≤ -41.20	PASS
				AV	5149.600	-43.31	≤ -41.20	PASS
				AV	5150.000	-43.11	≤ -41.20	PASS
				Peak	4500.000	-44.70	≤ -21.20	PASS
				Peak	5147.500	-34.73	≤ -21.20	PASS
				Peak	5150.000	-34.54	≤ -21.20	PASS
	Total	Low	5190	AV	4500.000	-51.00	≤ -41.20	PASS
				AV	5149.600	-41.81	≤ -41.20	PASS
				AV	5150.000	-41.67	≤ -41.20	PASS
				Peak	4500.000	-42.57	≤ -21.20	PASS
				Peak	5147.500	-33.04	≤ -21.20	PASS
				Peak	5150.000	-32.98	≤ -21.20	PASS
	Ant1	High	5310	AV	5350.000	-47.92	≤ -41.20	PASS
				AV	5350.240	-47.9	≤ -41.20	PASS
				AV	5460.000	-52.93	≤ -41.20	PASS
				Peak	5350.000	-40.45	≤ -21.20	PASS
				Peak	5356.320	-38.3	≤ -21.20	PASS
				Peak	5460.000	-45.62	≤ -21.20	PASS
	Ant2	High	5310	AV	5350.000	-44.55	≤ -41.20	PASS
				AV	5350.080	-44.55	≤ -41.20	PASS
				AV	5460.000	-51.88	≤ -41.20	PASS
				Peak	5350.000	-36.42	≤ -21.20	PASS
				Peak	5350.880	-35.56	≤ -21.20	PASS
				Peak	5460.000	-44.6	≤ -21.20	PASS
	Total	High	5310	AV	5350.000	-42.91	≤ -41.20	PASS
				AV	5350.080	-42.90	≤ -41.20	PASS
				AV	5460.000	-49.36	≤ -41.20	PASS
				Peak	5350.000	-34.97	≤ -21.20	PASS
				Peak	5350.880	-33.71	≤ -21.20	PASS
				Peak	5460.000	-42.07	≤ -21.20	PASS
	Ant1	Low	5510	AV	5350.000	-50.62	≤ -41.20	PASS
				AV	5459.500	-46.15	≤ -41.20	PASS
				AV	5460.000	-46.18	≤ -41.20	PASS
				Peak	5350.000	-42.79	≤ -21.20	PASS
				Peak	5424.300	-36.77	≤ -21.20	PASS
				Peak	5460.000	-37.64	≤ -21.20	PASS

	Ant2	Low	5510	AV	5350.000	-50.94	≤-41.20	PASS
				AV	5459.940	-44.81	≤-41.20	PASS
				AV	5460.000	-44.82	≤-41.20	PASS
				Peak	5350.000	-44.14	≤-21.20	PASS
				Peak	5459.280	-35.19	≤-21.20	PASS
				Peak	5460.000	-38.02	≤-21.20	PASS
	Total	Low	5510	AV	5350.000	-47.77	≤-41.20	PASS
				AV	5459.940	-42.42	≤-41.20	PASS
				AV	5460.000	-42.44	≤-41.20	PASS
				Peak	5350.000	-40.40	≤-21.20	PASS
				Peak	5459.280	-32.90	≤-21.20	PASS
				Peak	5460.000	-34.82	≤-21.20	PASS
	Ant1	Low	5755	Peak	5650.000	-38.18	≤-27.00	PASS
				Peak	5700.000	-37.86	≤10.00	PASS
				Peak	5720.000	-36.98	≤15.60	PASS
				Peak	5725.000	-36.95	≤27.00	PASS
	Ant2	Low	5755	Peak	5650.000	-39.45	≤-27.00	PASS
				Peak	5700.000	-33.41	≤10.00	PASS
				Peak	5720.000	-23.79	≤15.60	PASS
				Peak	5725.000	-21.85	≤27.00	PASS
	Total	Low	5755	Peak	5650.000	-35.76	≤-27.00	PASS
				Peak	5700.000	-32.08	≤-27.00	PASS
				Peak	5720.000	-23.59	≤-27.00	PASS
				Peak	5725.000	-21.72	≤-27.00	PASS
	Ant1	High	5795	Peak	5850.000	-39.91	≤15.60	PASS
				Peak	5855.000	-40.22	≤27.00	PASS
				Peak	5875.000	-39.02	≤15.60	PASS
				Peak	5925.000	-41.43	≤10.00	PASS
	Ant2	High	5795	Peak	5850.000	-34.03	≤15.60	PASS
				Peak	5855.000	-36.77	≤27.00	PASS
				Peak	5875.000	-38.27	≤15.60	PASS
				Peak	5925.000	-41.29	≤10.00	PASS
	Total	High	5795	Peak	5850.000	-33.03	≤-27.00	PASS
				Peak	5855.000	-35.15	≤-27.00	PASS
				Peak	5875.000	-35.62	≤-27.00	PASS
				Peak	5925.000	-38.35	≤-27.00	PASS
11AC80M	Ant1	Low	5210	AV	4500.000	-54.32	≤-41.20	PASS

IMO				AV	5149.500	-47.61	≤-41.20	PASS
				AV	5150.000	-47.65	≤-41.20	PASS
				Peak	4500.000	-47.62	≤-21.20	PASS
				Peak	5149.500	-39.28	≤-21.20	PASS
				Peak	5150.000	-39.32	≤-21.20	PASS
	Ant2	Low	5210	AV	4500.000	-54.29	≤-41.20	PASS
				AV	5149.500	-44.04	≤-41.20	PASS
				AV	5150.000	-44.05	≤-41.20	PASS
				Peak	4500.000	-44.17	≤-21.20	PASS
				Peak	5113.500	-33.87	≤-21.20	PASS
				Peak	5150.000	-35.94	≤-21.20	PASS
	Total	Low	5210	AV	4500.000	-51.29	≤-41.20	PASS
				AV	5149.500	-42.46	≤-41.20	PASS
				AV	5150.000	-42.48	≤-41.20	PASS
				Peak	4500.000	-42.55	≤-21.20	PASS
				Peak	5113.500	-32.77	≤-21.20	PASS
				Peak	5150.000	-34.30	≤-21.20	PASS
	Ant1	High	5290	AV	5350.000	-49.66	≤-41.20	PASS
				AV	5460.000	-54.84	≤-41.20	PASS
				Peak	5350.000	-41.69	≤-21.20	PASS
				Peak	5350.800	-40.95	≤-21.20	PASS
				Peak	5460.000	-47.00	≤-21.20	PASS
	Ant2	High	5290	AV	5350.000	-43.52	≤-41.20	PASS
				AV	5460.000	-54.11	≤-41.20	PASS
				Peak	5350.000	-34.81	≤-21.20	PASS
				Peak	5356.600	-33.71	≤-21.20	PASS
				Peak	5460.000	-46.31	≤-21.20	PASS
	Total	High	5290	AV	5350.000	-42.57	≤-41.20	PASS
				AV	5460.000	-51.45	≤-41.20	PASS
				Peak	5350.000	-34.00	≤-21.20	PASS
				Peak	5356.600	-32.96	≤-21.20	PASS
				Peak	5460.000	-43.63	≤-21.20	PASS
	Ant1	Low	5530	AV	5350.000	-53.08	≤-41.20	PASS
				AV	5457.640	-47.78	≤-41.20	PASS
				AV	5460.000	-48.34	≤-41.20	PASS
				Peak	5350.000	-43.53	≤-21.20	PASS
				Peak	5458.480	-38.26	≤-21.20	PASS

	Ant2	Low	5530	Peak	5460.000	-40.72	≤-21.20	PASS
				AV	5350.000	-52.90	≤-41.20	PASS
				AV	5453.720	-44.86	≤-41.20	PASS
				AV	5460.000	-45.50	≤-41.20	PASS
				Peak	5350.000	-44.75	≤-21.20	PASS
				Peak	5448.960	-34.30	≤-21.20	PASS
				Peak	5460.000	-38.14	≤-21.20	PASS
	Total	Low	5530	AV	5350.000	-49.98	≤-41.20	PASS
				AV	5453.720	-43.07	≤-41.20	PASS
				AV	5460.000	-43.68	≤-41.20	PASS
				Peak	5350.000	-41.09	≤-21.20	PASS
				Peak	5448.960	-32.83	≤-21.20	PASS
				Peak	5460.000	-36.23	≤-21.20	PASS
	Ant1	Low	5775	Peak	5650.000	-42.43	≤-27.00	PASS
				Peak	5700.000	-38.86	≤10.00	PASS
				Peak	5720.000	-38.35	≤15.60	PASS
				Peak	5725.000	-36.62	≤27.00	PASS
	Ant2	Low	5775	Peak	5650.000	-40.69	≤-27.00	PASS
				Peak	5700.000	-26.53	≤10.00	PASS
				Peak	5720.000	-25.08	≤15.60	PASS
				Peak	5725.000	-22.23	≤27.00	PASS
	Total	Low	5775	Peak	5650.000	-38.46	≤-27.00	PASS
				Peak	5700.000	-26.28	≤-27.00	PASS
				Peak	5720.000	-24.88	≤-27.00	PASS
				Peak	5725.000	-22.07	≤-27.00	PASS
	Ant1	High	5775	Peak	5850.000	-40.29	≤15.60	PASS
				Peak	5855.000	-39.74	≤27.00	PASS
				Peak	5875.000	-40.67	≤15.60	PASS
				Peak	5925.000	-44.19	≤10.00	PASS
	Ant2	High	5775	Peak	5850.000	-30.80	≤15.60	PASS
				Peak	5855.000	-32.14	≤27.00	PASS
				Peak	5875.000	-36.51	≤15.60	PASS
				Peak	5925.000	-43.28	≤10.00	PASS
	Total	High	5775	Peak	5850.000	-30.34	≤-27.00	PASS
				Peak	5855.000	-31.44	≤-27.00	PASS
				Peak	5875.000	-35.10	≤-27.00	PASS
				Peak	5925.000	-40.70	≤-27.00	PASS

11AX20M IMO	Ant1	Low	5180	AV	4500.000	-54.23	≤ -41.20	PASS
				AV	5149.600	-51.99	≤ -41.20	PASS
				AV	5150.000	-51.91	≤ -41.20	PASS
				Peak	4500.000	-45.84	≤ -21.20	PASS
				Peak	5078.900	-41.45	≤ -21.20	PASS
				Peak	5150.000	-43.14	≤ -21.20	PASS
	Ant2	Low	5180	AV	4500.000	-54.16	≤ -41.20	PASS
				AV	5149.600	-50.34	≤ -41.20	PASS
				AV	5150.000	-50.22	≤ -41.20	PASS
				Peak	4500.000	-46.78	≤ -21.20	PASS
				Peak	5147.500	-40.71	≤ -21.20	PASS
				Peak	5150.000	-42.04	≤ -21.20	PASS
	Total	Low	5180	AV	4500.000	-51.18	≤ -41.20	PASS
				AV	5149.600	-48.08	≤ -41.20	PASS
				AV	5150.000	-47.97	≤ -41.20	PASS
				Peak	4500.000	-43.27	≤ -21.20	PASS
				Peak	5147.500	-38.05	≤ -21.20	PASS
				Peak	5150.000	-39.54	≤ -21.20	PASS
	Ant1	High	5320	AV	5350.000	-51.65	≤ -41.20	PASS
				AV	5350.080	-51.65	≤ -41.20	PASS
				AV	5460.000	-54.53	≤ -41.20	PASS
				Peak	5350.000	-44.30	≤ -21.20	PASS
				Peak	5358.400	-41.10	≤ -21.20	PASS
				Peak	5460.000	-47.05	≤ -21.20	PASS
	Ant2	High	5320	AV	5350.000	-47.79	≤ -41.20	PASS
				AV	5350.240	-47.78	≤ -41.20	PASS
				AV	5460.000	-53.76	≤ -41.20	PASS
				Peak	5350.000	-40.10	≤ -21.20	PASS
				Peak	5352.320	-38.27	≤ -21.20	PASS
				Peak	5460.000	-44.60	≤ -21.20	PASS
	Total	High	5320	AV	5350.000	-46.29	≤ -41.20	PASS
				AV	5350.240	-46.29	≤ -41.20	PASS
				AV	5460.000	-51.12	≤ -41.20	PASS
				Peak	5350.000	-38.70	≤ -21.20	PASS
				Peak	5352.320	-36.45	≤ -21.20	PASS
				Peak	5460.000	-42.64	≤ -21.20	PASS
	Ant1	Low	5500	AV	5350.000	-53.09	≤ -41.20	PASS

				AV	5459.390	-50.93	≤-41.20	PASS
				AV	5460.000	-50.90	≤-41.20	PASS
				Peak	5350.000	-45.09	≤-21.20	PASS
				Peak	5456.240	-41.34	≤-21.20	PASS
				Peak	5460.000	-43.56	≤-21.20	PASS
	Ant2	Low	5500	AV	5350.000	-52.77	≤-41.20	PASS
				AV	5459.180	-50.11	≤-41.20	PASS
				AV	5460.000	-50.16	≤-41.20	PASS
				Peak	5350.000	-44.65	≤-21.20	PASS
				Peak	5429.780	-39.68	≤-21.20	PASS
				Peak	5460.000	-41.92	≤-21.20	PASS
	Total	Low	5500	AV	5350.000	-49.92	≤-41.20	PASS
				AV	5459.180	-47.49	≤-41.20	PASS
				AV	5460.000	-47.50	≤-41.20	PASS
				Peak	5350.000	-41.85	≤-21.20	PASS
				Peak	5429.780	-37.42	≤-21.20	PASS
				Peak	5460.000	-39.65	≤-21.20	PASS
	Ant1	Low	5745	Peak	5650.000	-44.75	≤-27.00	PASS
				Peak	5700.000	-43.26	≤10.00	PASS
				Peak	5720.000	-43.19	≤15.60	PASS
				Peak	5725.000	-42.64	≤27.00	PASS
	Ant2	Low	5745	Peak	5650.000	-42.94	≤-27.00	PASS
				Peak	5700.000	-40.21	≤10.00	PASS
				Peak	5720.000	-33.34	≤15.60	PASS
				Peak	5725.000	-26.19	≤27.00	PASS
	Total	Low	5745	Peak	5650.000	-40.74	≤-27.00	PASS
				Peak	5700.000	-38.46	≤-27.00	PASS
				Peak	5720.000	-32.91	≤-27.00	PASS
				Peak	5725.000	-26.09	≤-27.00	PASS
	Ant1	High	5825	Peak	5850.000	-41.71	≤15.60	PASS
				Peak	5855.000	-43.29	≤27.00	PASS
				Peak	5875.000	-44.06	≤15.60	PASS
				Peak	5925.000	-44.24	≤10.00	PASS
	Ant2	High	5825	Peak	5850.000	-32.77	≤15.60	PASS
				Peak	5855.000	-33.95	≤27.00	PASS
				Peak	5875.000	-43.19	≤15.60	PASS
				Peak	5925.000	-45.15	≤10.00	PASS

11AX40M IMO	Total	High	5825	Peak	5850.000	-32.25	≤-27.00	PASS
				Peak	5855.000	-33.47	≤-27.00	PASS
				Peak	5875.000	-40.59	≤-27.00	PASS
				Peak	5925.000	-41.66	≤-27.00	PASS
	Ant1	Low	5190	AV	4500.000	-54.33	≤-41.20	PASS
				AV	5149.600	-48.04	≤-41.20	PASS
				AV	5150.000	-48.02	≤-41.20	PASS
				Peak	4500.000	-46.21	≤-21.20	PASS
				Peak	5148.200	-38.57	≤-21.20	PASS
				Peak	5150.000	-38.78	≤-21.20	PASS
	Ant2	Low	5190	AV	4500.000	-54.27	≤-41.20	PASS
				AV	5149.600	-46.04	≤-41.20	PASS
				AV	5150.000	-45.98	≤-41.20	PASS
				Peak	4500.000	-46.95	≤-21.20	PASS
				Peak	5148.900	-35.93	≤-21.20	PASS
				Peak	5150.000	-37.46	≤-21.20	PASS
	Total	Low	5190	AV	4500.000	-51.29	≤-41.20	PASS
				AV	5149.600	-43.92	≤-41.20	PASS
				AV	5150.000	-43.87	≤-41.20	PASS
				Peak	4500.000	-43.55	≤-21.20	PASS
				Peak	5148.900	-34.04	≤-21.20	PASS
				Peak	5150.000	-35.06	≤-21.20	PASS
	Ant1	High	5310	AV	5350.000	-48.83	≤-41.20	PASS
				AV	5350.560	-48.81	≤-41.20	PASS
				AV	5460.000	-53.63	≤-41.20	PASS
				Peak	5350.000	-41.49	≤-21.20	PASS
				Peak	5378.720	-39.92	≤-21.20	PASS
				Peak	5460.000	-46.40	≤-21.20	PASS
	Ant2	High	5310	AV	5350.000	-43.83	≤-41.20	PASS
				AV	5350.240	-43.81	≤-41.20	PASS
				AV	5460.000	-51.98	≤-41.20	PASS
				Peak	5350.000	-36.22	≤-21.20	PASS
				Peak	5351.200	-34.10	≤-21.20	PASS
				Peak	5460.000	-44.50	≤-21.20	PASS
	Total	High	5310	AV	5350.000	-42.64	≤-41.20	PASS
				AV	5350.240	-42.62	≤-41.20	PASS
				AV	5460.000	-49.72	≤-41.20	PASS

				Peak	5350.000	-35.09	≤-21.20	PASS
				Peak	5351.200	-33.09	≤-21.20	PASS
				Peak	5460.000	-42.34	≤-21.20	PASS
	Ant1	Low	5510	AV	5350.000	-51.14	≤-41.20	PASS
				AV	5455.100	-47.27	≤-41.20	PASS
				AV	5460.000	-47.30	≤-41.20	PASS
				Peak	5350.000	-43.20	≤-21.20	PASS
				Peak	5455.980	-36.87	≤-21.20	PASS
				Peak	5460.000	-40.00	≤-21.20	PASS
	Ant2	Low	5510	AV	5350.000	-51.48	≤-41.20	PASS
				AV	5448.720	-47.52	≤-41.20	PASS
				AV	5460.000	-47.89	≤-41.20	PASS
				Peak	5350.000	-44.15	≤-21.20	PASS
				Peak	5451.800	-37.24	≤-21.20	PASS
				Peak	5460.000	-40.26	≤-21.20	PASS
	Total	Low	5510	AV	5350.000	-48.30	≤-41.20	PASS
				AV	5448.720	-44.38	≤-41.20	PASS
				AV	5460.000	-44.57	≤-41.20	PASS
				Peak	5350.000	-40.64	≤-21.20	PASS
				Peak	5451.800	-34.04	≤-21.20	PASS
				Peak	5460.000	-37.12	≤-21.20	PASS
	Ant1	Low	5755	Peak	5650.000	-38.162	≤-27.00	PASS
				Peak	5700.000	-37.80	≤10.00	PASS
				Peak	5720.000	-38.00	≤15.60	PASS
				Peak	5725.000	-36.33	≤27.00	PASS
	Ant2	Low	5755	Peak	5650.000	-36.73	≤-27.00	PASS
				Peak	5700.000	-32.79	≤10.00	PASS
				Peak	5720.000	-23.93	≤15.60	PASS
				Peak	5725.000	-21.51	≤27.00	PASS
	Total	Low	5755	Peak	5650.000	-34.38	≤-27.00	PASS
				Peak	5700.000	-31.60	≤-27.00	PASS
				Peak	5720.000	-23.76	≤-27.00	PASS
				Peak	5725.000	-21.37	≤-27.00	PASS
	Ant1	High	5795	Peak	5850.000	-36.32	≤15.60	PASS
				Peak	5855.000	-38.60	≤27.00	PASS
				Peak	5875.000	-39.38	≤15.60	PASS
				Peak	5925.000	-41.79	≤10.00	PASS

	Ant2	High	5795	Peak	5850.000	-34.61	≤15.60	PASS
				Peak	5855.000	-35.41	≤27.00	PASS
				Peak	5875.000	-38.32	≤15.60	PASS
				Peak	5925.000	-40.58	≤10.00	PASS
	Total	High	5795	Peak	5850.000	-32.37	≤-27.00	PASS
				Peak	5855.000	-33.71	≤-27.00	PASS
				Peak	5875.000	-35.81	≤-27.00	PASS
				Peak	5925.000	-38.13	≤-27.00	PASS
11AX80M IMO	Ant1	Low	5210	AV	4500.000	-54.18	≤-41.20	PASS
				AV	5149.500	-46.69	≤-41.20	PASS
				AV	5150.000	-46.68	≤-41.20	PASS
				Peak	4500.000	-46.17	≤-21.20	PASS
				Peak	5147.250	-37.98	≤-21.20	PASS
				Peak	5150.000	-38.21	≤-21.20	PASS
	Ant2	Low	5210	AV	4500.000	-54.15	≤-41.20	PASS
				AV	5149.500	-43.84	≤-41.20	PASS
				AV	5150.000	-43.85	≤-41.20	PASS
				Peak	4500.000	-45.08	≤-21.20	PASS
				Peak	5130.750	-37.35	≤-21.20	PASS
				Peak	5150.000	-36.16	≤-21.20	PASS
	Total	Low	5210	AV	4500.000	-51.15	≤-41.20	PASS
				AV	5149.500	-42.02	≤-41.20	PASS
				AV	5150.000	-42.03	≤-41.20	PASS
				Peak	4500.000	-42.58	≤-21.20	PASS
				Peak	5130.750	-34.64	≤-21.20	PASS
				Peak	5150.000	-34.05	≤-21.20	PASS
	Ant1	High	5290	AV	5350.000	-49.00	≤-41.20	PASS
				AV	5460.000	-54.42	≤-41.20	PASS
				Peak	5350.000	-42.17	≤-21.20	PASS
				Peak	5354.000	-40.06	≤-21.20	PASS
				Peak	5460.000	-46.26	≤-21.20	PASS
	Ant2	High	5290	AV	5350.000	-44.26	≤-41.20	PASS
				AV	5460.000	-53.57	≤-41.20	PASS
				Peak	5350.000	-37.17	≤-21.20	PASS
				Peak	5350.600	-34.79	≤-21.20	PASS
				Peak	5460.000	-45.16	≤-21.20	PASS
	Total	High	5290	AV	5350.000	-43.00	≤-41.20	PASS

				AV	5460.000	-50.96	≤-41.20	PASS
				Peak	5350.000	-35.98	≤-21.20	PASS
				Peak	5350.600	-33.66	≤-21.20	PASS
				Peak	5460.000	-42.66	≤-21.20	PASS
	Ant1	Low	5530	AV	5350.000	-51.41	≤-41.20	PASS
				AV	5457.640	-45.77	≤-41.20	PASS
				AV	5460.000	-46.34	≤-41.20	PASS
				Peak	5350.000	-43.08	≤-21.20	PASS
				Peak	5455.120	-36.87	≤-21.20	PASS
				Peak	5460.000	-38.00	≤-21.20	PASS
	Ant2	Low	5530	AV	5350.000	-52.51	≤-41.20	PASS
				AV	5457.640	-45.50	≤-41.20	PASS
				AV	5460.000	-46.23	≤-41.20	PASS
				Peak	5350.000	-44.45	≤-21.20	PASS
				Peak	5449.800	-34.81	≤-21.20	PASS
				Peak	5460.000	-38.40	≤-21.20	PASS
	Total	Low	5530	AV	5350.000	-48.91	≤-41.20	PASS
				AV	5457.640	-42.62	≤-41.20	PASS
				AV	5460.000	-43.27	≤-41.20	PASS
				Peak	5350.000	-40.70	≤-21.20	PASS
				Peak	5449.800	-32.71	≤-21.20	PASS
				Peak	5460.000	-35.19	≤-21.20	PASS
	Ant1	Low	5775	Peak	5650.000	-40.01	≤-27.00	PASS
				Peak	5700.000	-38.89	≤10.00	PASS
				Peak	5720.000	-37.64	≤15.60	PASS
				Peak	5725.000	-37.27	≤27.00	PASS
	Ant2	Low	5775	Peak	5650.000	-41.93	≤-27.00	PASS
				Peak	5700.000	-31.75	≤10.00	PASS
				Peak	5720.000	-29.86	≤15.60	PASS
				Peak	5725.000	-28.32	≤27.00	PASS
	Total	Low	5775	Peak	5650.000	-37.85	≤-27.00	PASS
				Peak	5700.000	-30.98	≤-27.00	PASS
				Peak	5720.000	-29.19	≤-27.00	PASS
				Peak	5725.000	-27.80	≤-27.00	PASS
	Ant1	High	5775	Peak	5850.000	-38.23	≤15.60	PASS
				Peak	5855.000	-38.51	≤27.00	PASS
				Peak	5875.000	-40.46	≤15.60	PASS

	Ant2	High	5775	Peak	5925.000	-40.86	≤10.00	PASS
				Peak	5850.000	-34.38	≤15.60	PASS
				Peak	5855.000	-35.35	≤27.00	PASS
				Peak	5875.000	-40.01	≤15.60	PASS
				Peak	5925.000	-43.17	≤10.00	PASS
	Total	High	5775	Peak	5850.000	-32.88	≤-27.00	PASS
				Peak	5855.000	-33.64	≤-27.00	PASS
				Peak	5875.000	-37.22	≤-27.00	PASS
				Peak	5925.000	-38.85	≤-27.00	PASS

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

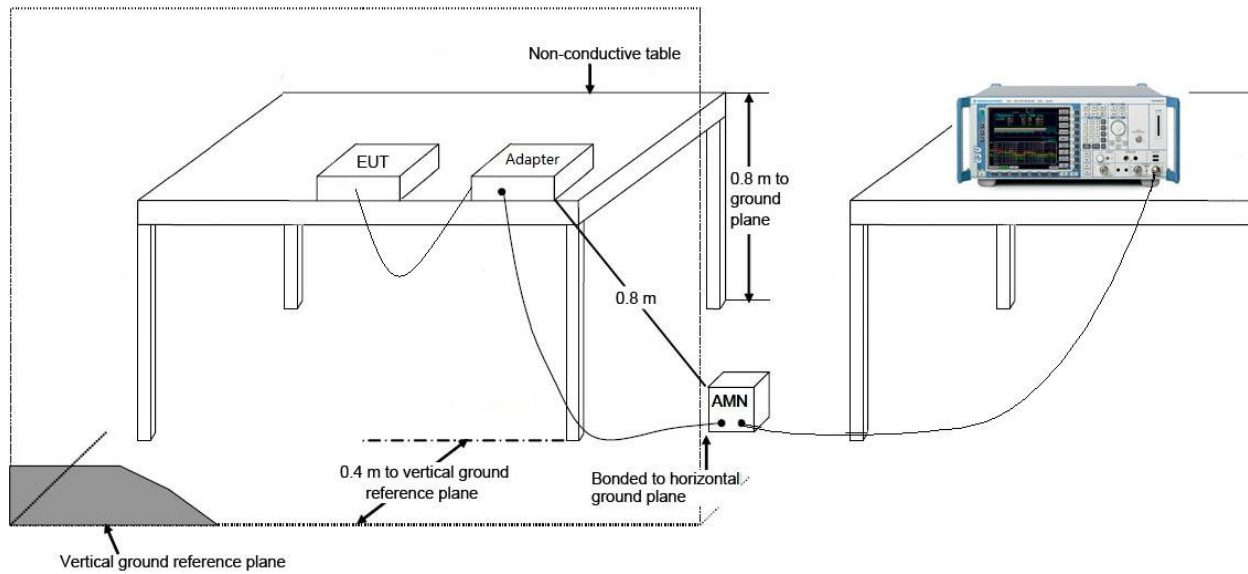
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.10.3. Test Setup



7.10.4. Test Result

The product is DC powered. Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **WiFi module** is in compliance with Part 15E of the FCC Rules.

_____ The End _____